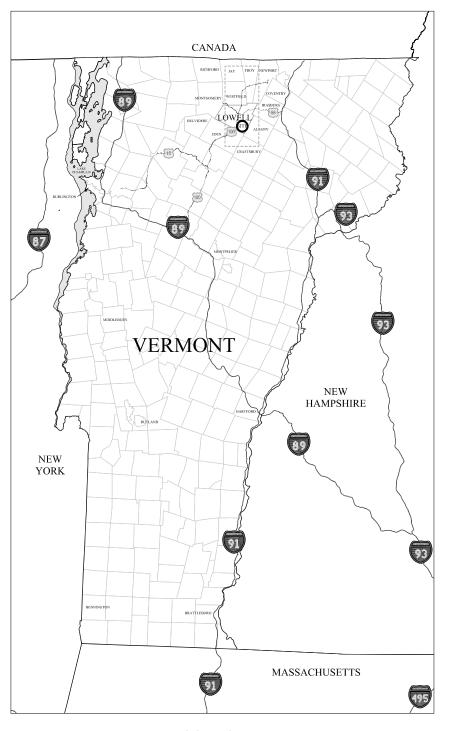
PROPOSED TRANSMISSION LINE UPGRADE NEWPORT, VT EDEN, VT VICÍNITY MAP

KINGDOM COMMUNITY WIND



PLAN INDEX:

SHEET#	LOCATION	STA	OITA	NING	LAST REVISED
C-100	Overall Site Plan	21 Turbine Design			
C-101	Access Road	Sta. 0+00	to	Sta. 21+50	
C-102	Access Road	Sta. 21+50	to	Sta. 43+00	
C-103	Access Road	Sta. 43+00	to	Sta. 64+50	
C-104	Access Road	Sta. 64+50	to	Sta. 86+00	
C-105	Access Road	Sta. 86+00	to	Sta. 107+50	
C-106	Access Road/Crane Path	Sta. 107+50	to	Sta. 129+00	
C-107	Access Road	Sta. 129+00	to	Sta. 142+02	
C-108	Crane Path	Sta. 0+00	to	Sta. 21+50	
C-109	Crane Path	Sta. 21+50	to	Sta. 43+00	
C-110	Crane Path	Sta. 43+00	to	Sta. 64+50	
C-111	Crane Path	Sta. 64+50	to	Sta. 84+50	
C-112	Crane Path	Sta. 84+50	to	Sta. 107+50	
C-113	Crane Path	Sta. 107+50	to	Sta. 130+00	
C-114	Crane Path	Sta. 130+00	to	Sta. 150+50	
C-115	Crane Path	Sta. 150+50	to	Sta. 172+00	
C-116	Crane Path	Sta. 172+00	to	Sta. 193+50	
C-117	Crane Path	Sta. 193+50	to	Sta. 200+75	
C-118	Crane Path Spur	Sta. 0+00	to	Sta. 7+45	
C-119	Details				
C-120	Details				
C-150	Overall Site Plan	20 Turbine D	esigr	า	
C-156	Access Road	Sta. 107+50	to	Sta. 129+00	
C-157	Access Road/Crane Path	Sta. 129+00	to	Sta. 142+50	
C-158	Crane Path	Sta. 00+00	to	Sta. 21+50	
C-159	Crane Path	Sta. 21+50	to	Sta. 43+00	
C-160	Crane Path	Sta. 43+00	to	Sta. 64+50	
C-161	Crane Path	Sta. 64+50	to	Sta. 86+00	
C-162	Crane Path	Sta. 86+00	to	Sta. 107+50	
C-163	Crane Path	Sta. 107+50	to	Sta. 129+00	
C-164	Crane Path	Sta. 129+00	to	Sta. 150+50	
C-165	Crane Path	Sta. 150+50	to	Sta. 172+00	
C-166	Crane Path	Sta. 172+00	to	Sta. 193+55	
C-167	Crane Path Spur	Sta. 0+00	to	Sta. 9+83	



KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

NOTE: THIS PLAN SET WAS PRODUCED FOR PUBLICATION ON 24" BY 36" MEDIA, THIS REPRODUCTION PLAN SET WAS REDUCED FOR PUBLICATION ON 1" BY 17" MEDIA. THE STATED SCALES ARE NOT VALID AT 11" BY 17" SIZE. GRAPHIC SCALE BARS ARE CORRECT.

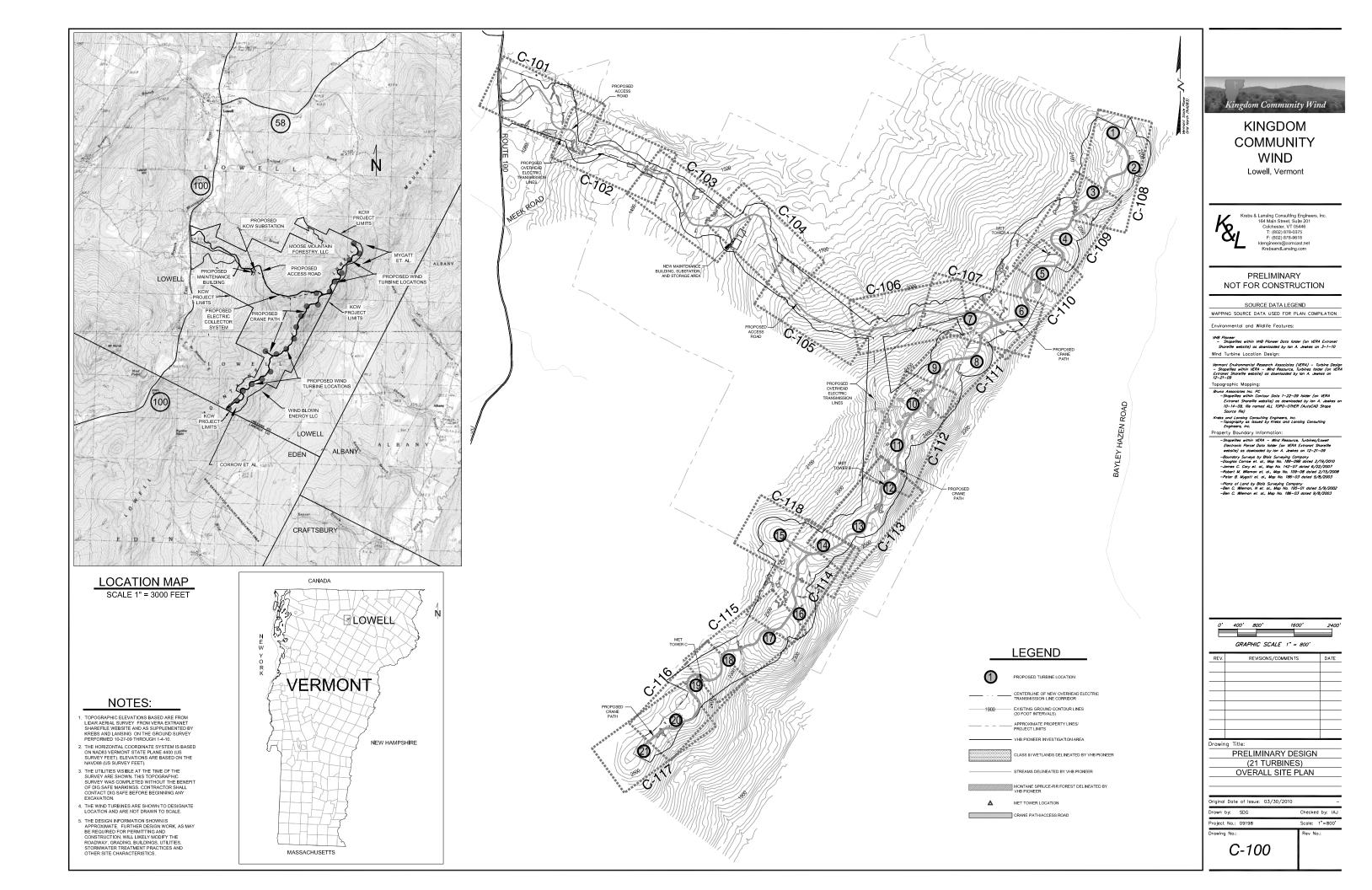
REV.	REVISIONS/COMMENTS	DATE
awing	Title:	

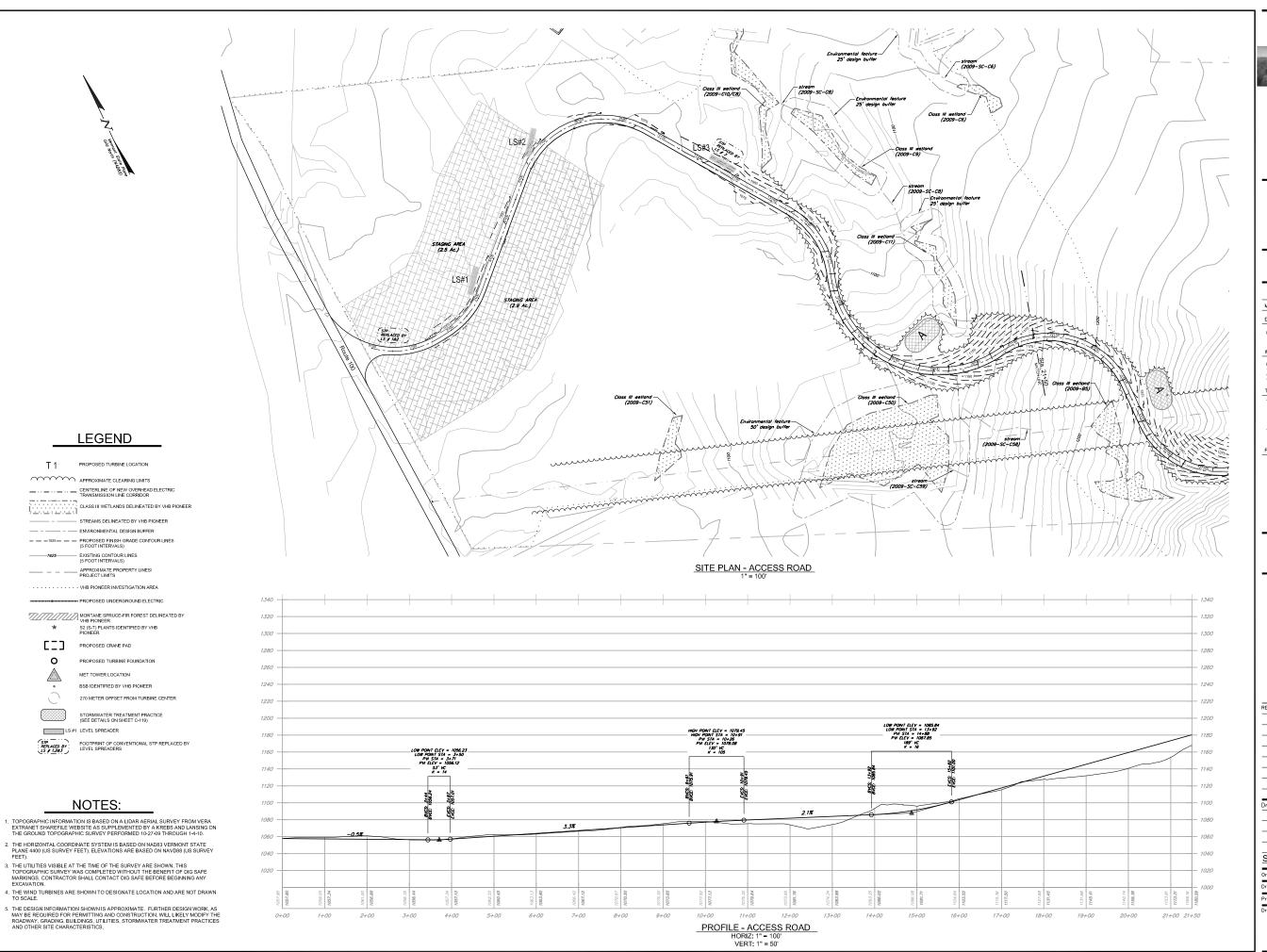
COVER SHEET

Project No.: 09198

INDEX

LOCATION MAP APPROXIMATE SCALE 1" = 12 MILES







KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:
Bruno Associates Inc. PC
-Suppolese within Contour Data 1-22-09 failer (an MERA
-Extranel Sharefile metastic) as downloaded by fan A. Jewies on
10-14-08, Rie named ALL 1709-0 THER (AutoCAD Shape
Source Rie)

Krebs and Lonsing Consulting Engineers, Inc.
-Topography as issued by Krebs and Lansing Consulting
Engineers, Inc.

Property Boundary Information

-Pians of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100'

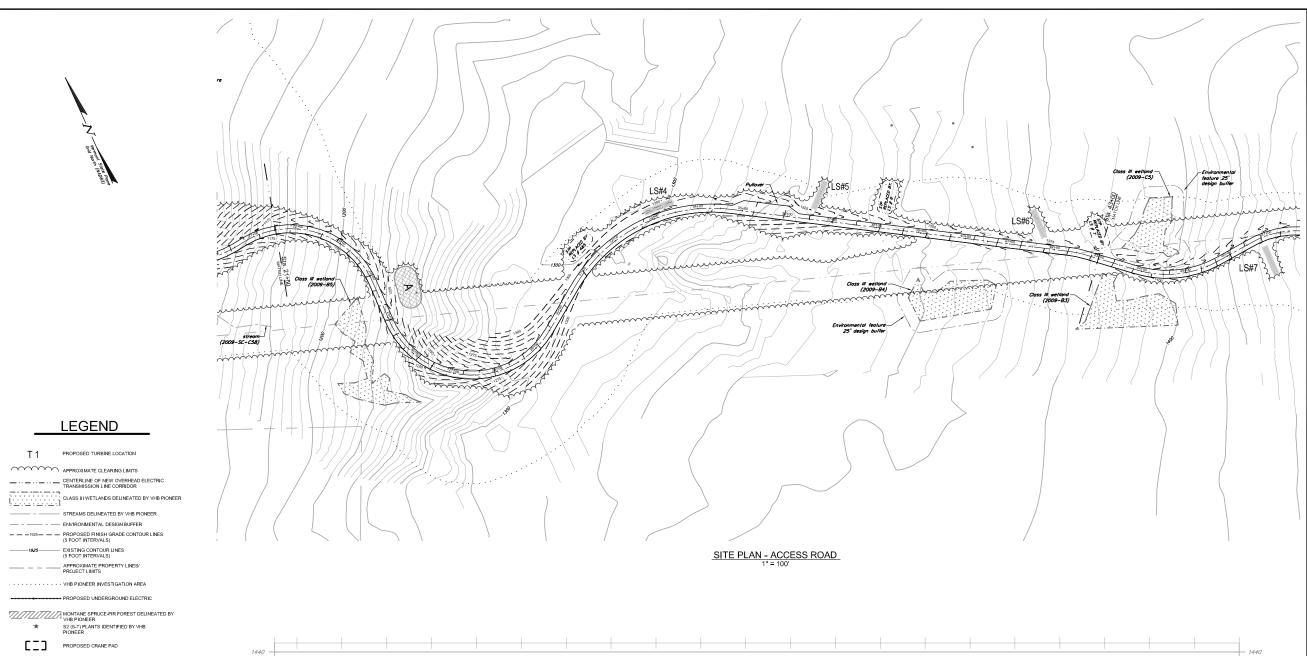


REV.	REVISIONS/COMMENTS	DATE
)rav	wing Title:	
	DDELIMINADY DESIGN	

PRELIMINARY DESIGN (21 TURBINES) PLAN AND PROFILE ACCESS ROAD

Station 0+00 to Station 21+50

Original Date of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies



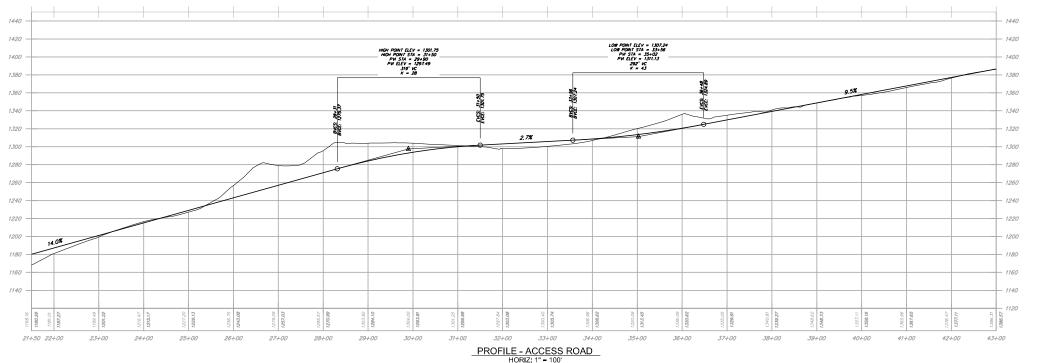
MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER 270 METER OFFSET FROM TURBINE CENTER LS #1 LEVEL SPREADER

NOTES:

TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.

(SIP FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

- THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS
 TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE
 MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY
 EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
- THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.



Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

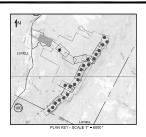
Topographic Mapping:
Bruno Associates Inc. PC
-Suppolese within Contour Data 1-22-09 failer (an MERA
-Extranel Sharefile metastic) as downloaded by fan A. Jewies on
10-14-08, Rie named ALL 1709-0 THER (AutoCAD Shape
Source Rie)

Krebs and Lansing Consulting Engineers, Inc.
- Topography as issued by Krebs and Lansing Consulting
Engineers, Inc.

-Pians of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100'



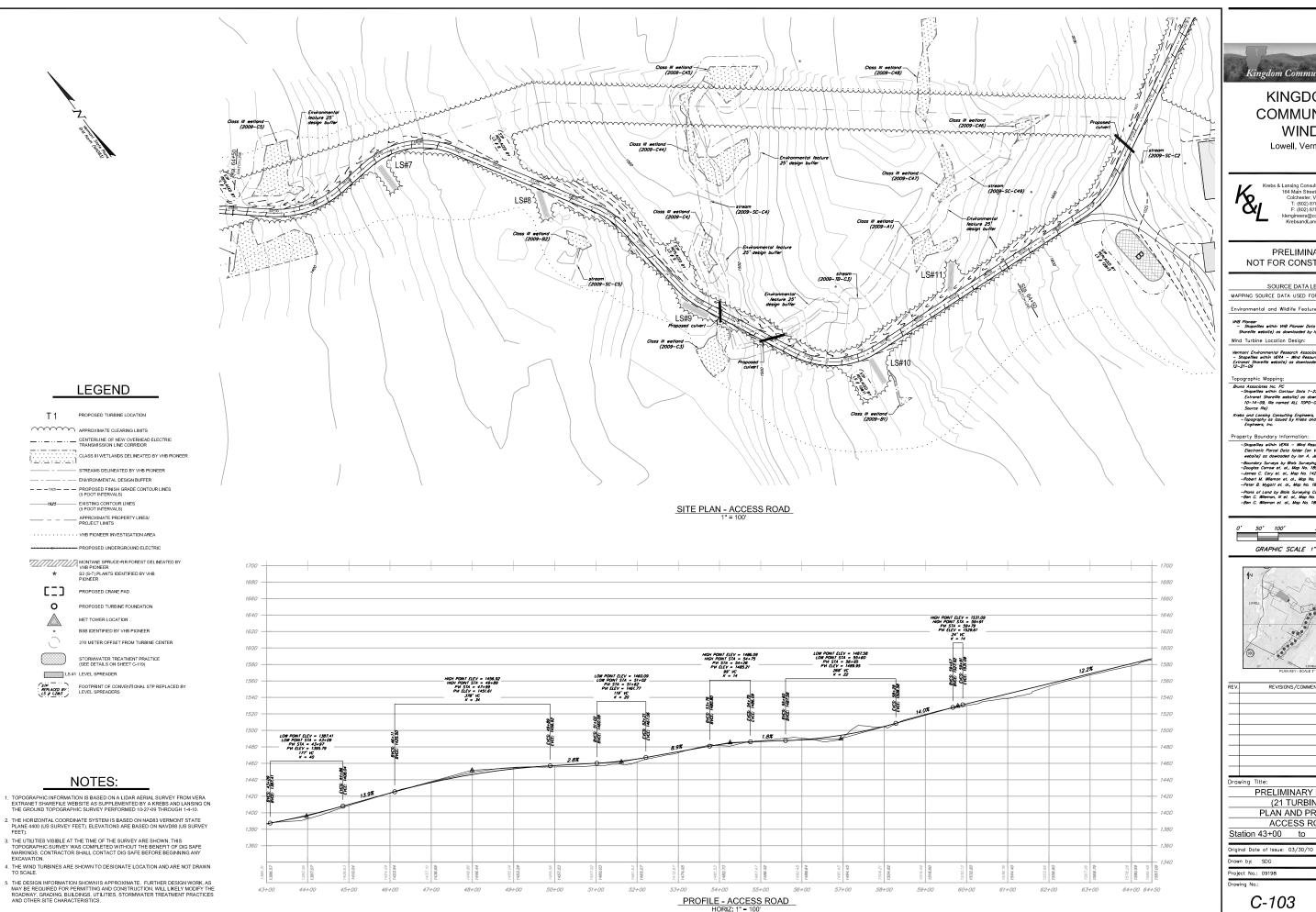
EV.	REVISIONS/COMMENTS	DATE
rav	wing Title:	
	PRELIMINARY DESIGN	

(21 TURBINES) PLAN AND PROFILE ACCESS ROAD

Station 21+50 to Station 43+00

Original Date of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Wind Turbine Location Design:

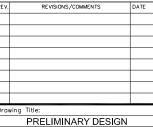
Topographic Mapping:
Bruno Associates Inc. RC
-Phopolites within Contour Data 1-22-09 folder (an VERA
Extranel Strantile website) as downloaded by fan A. Imetes on
IO-14-09. Re nomed ALL TOPO-0THER (AutoCAD Shape
Source Re)

Property Boundary Information

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-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'

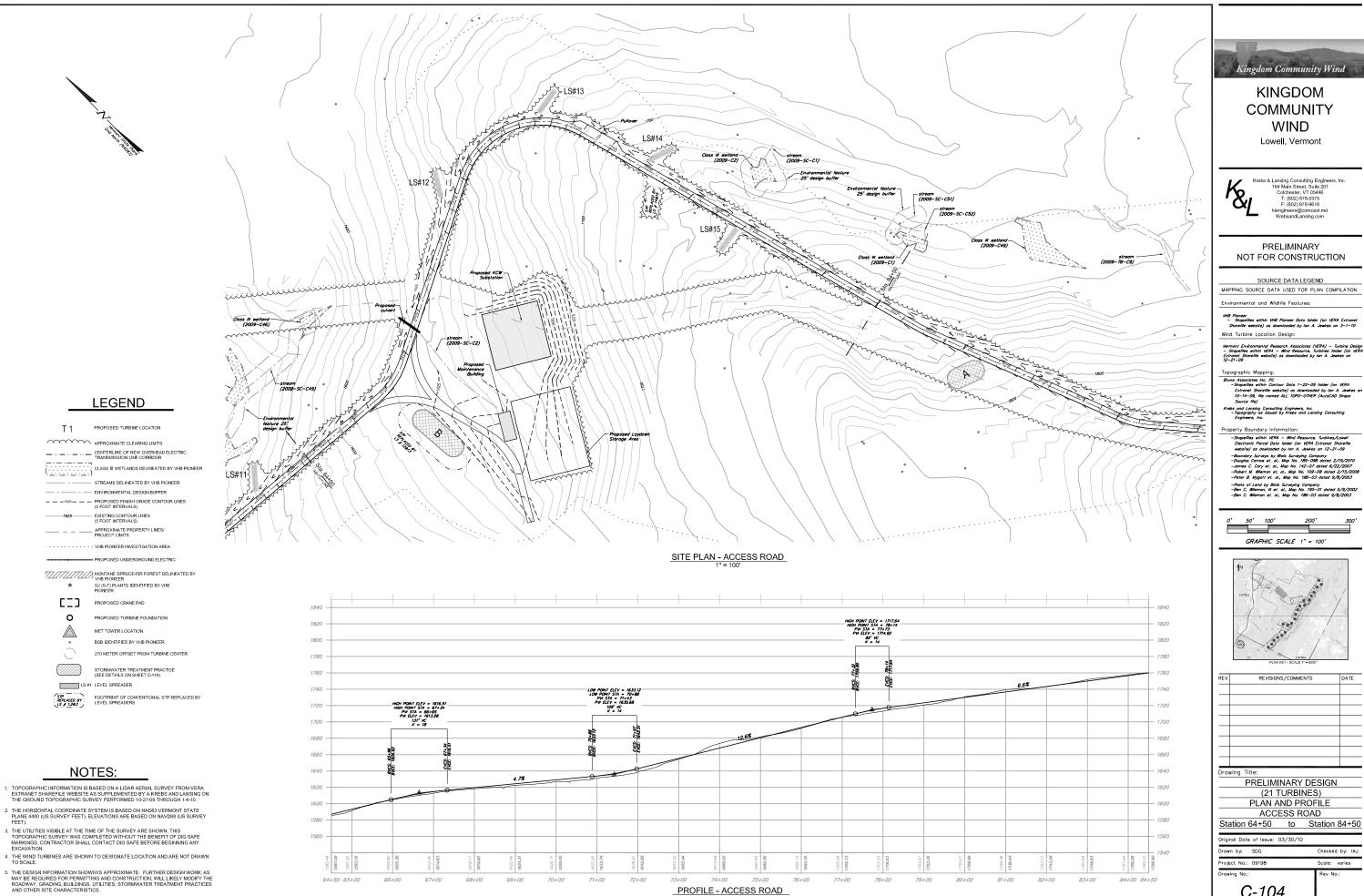




(21 TURBINES) PLAN AND PROFILE ACCESS ROAD

Station 43+00 to Station 64+50

Scale: varies



PROFILE - ACCESS ROAD
HORIZ: 1" = 100"

Kingdom Community Wind

KINGDOM COMMUNITY



MAPPING SOURCE DATA USED FOR PLAN COMPILATION

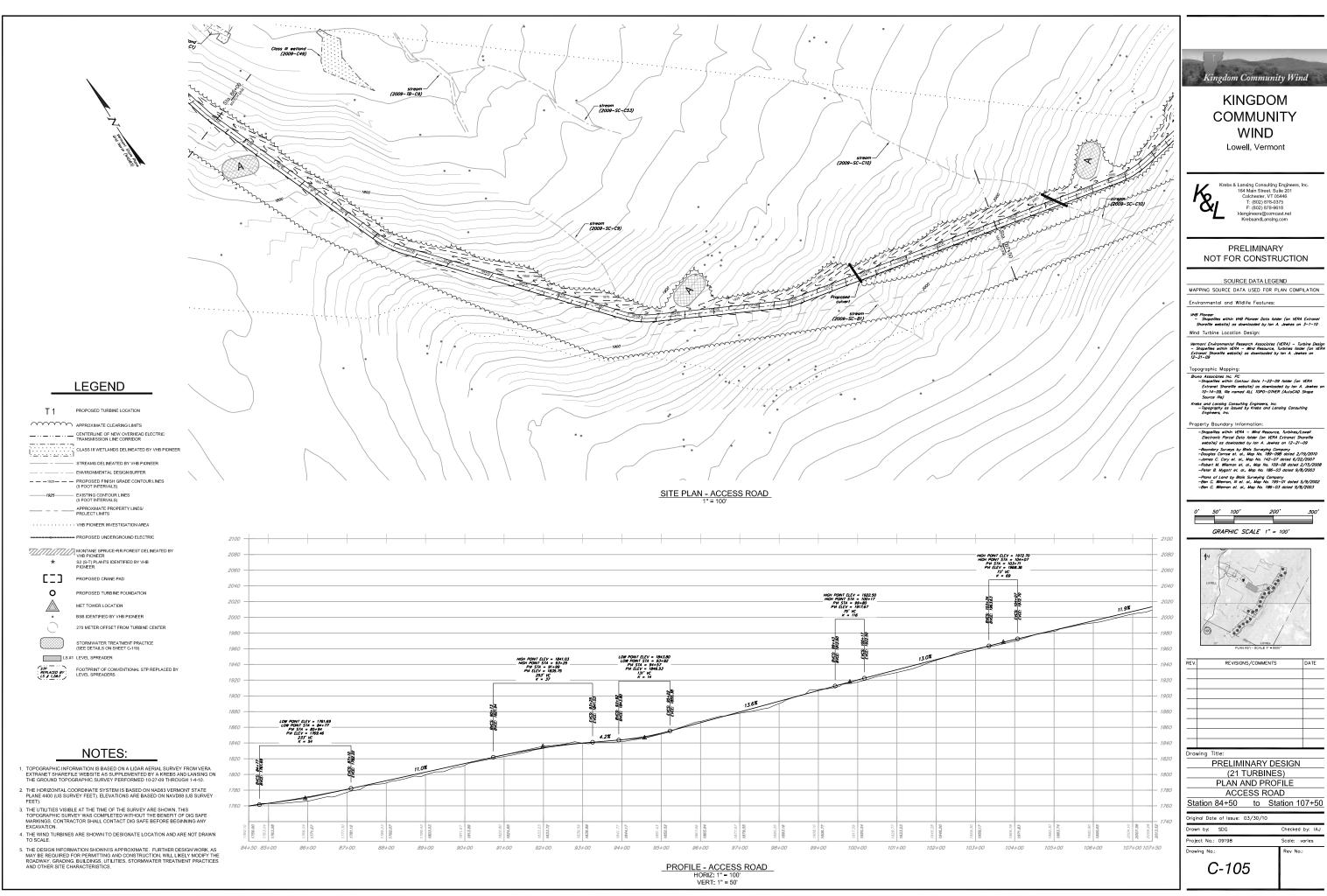


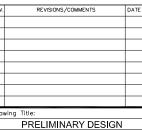
	REVISIONS/COMMENTS	DATE
ving	Title:	
	PRELIMINARY DESIG	iN .

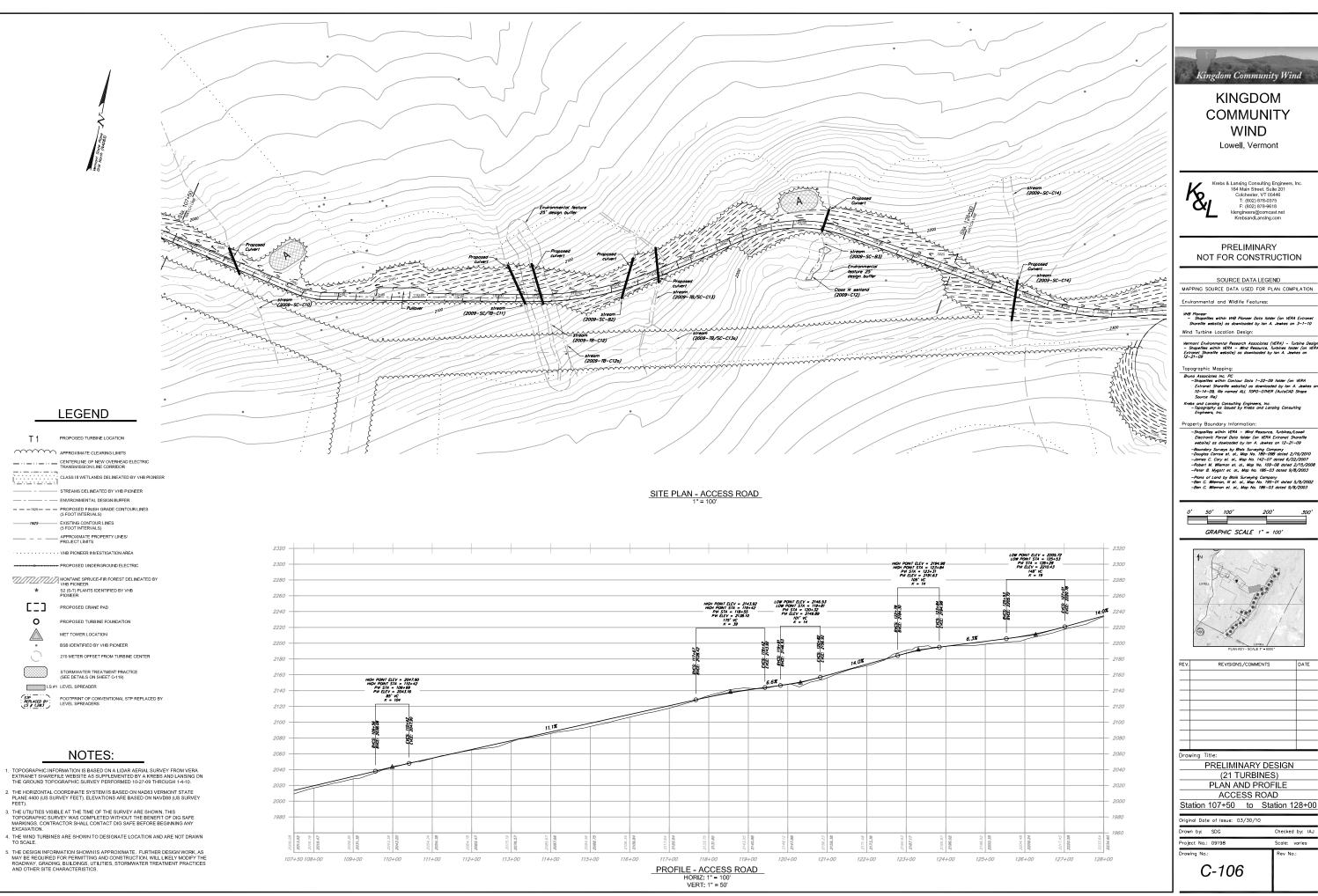
(21 TURBINES) PLAN AND PROFILE

Station 64+50 to Station 84+50

Scale: varies







Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

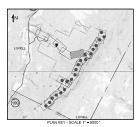
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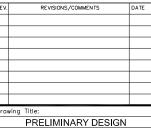
Poundary Surveys by Blois Surveying Company
- Douglos Carrow et. al., Map Na. 189-088 dated 2/19/2010
- James C. Cary et. al., Map Na. 184-07 dated 6/22/2007
- Robert M. Wileman et. al., Map Na. 186-03 dated 2/15/2006
- Peter B. Mygatt et. al., Map No. 186-03 dated 9/8/2003

-Pians of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100'

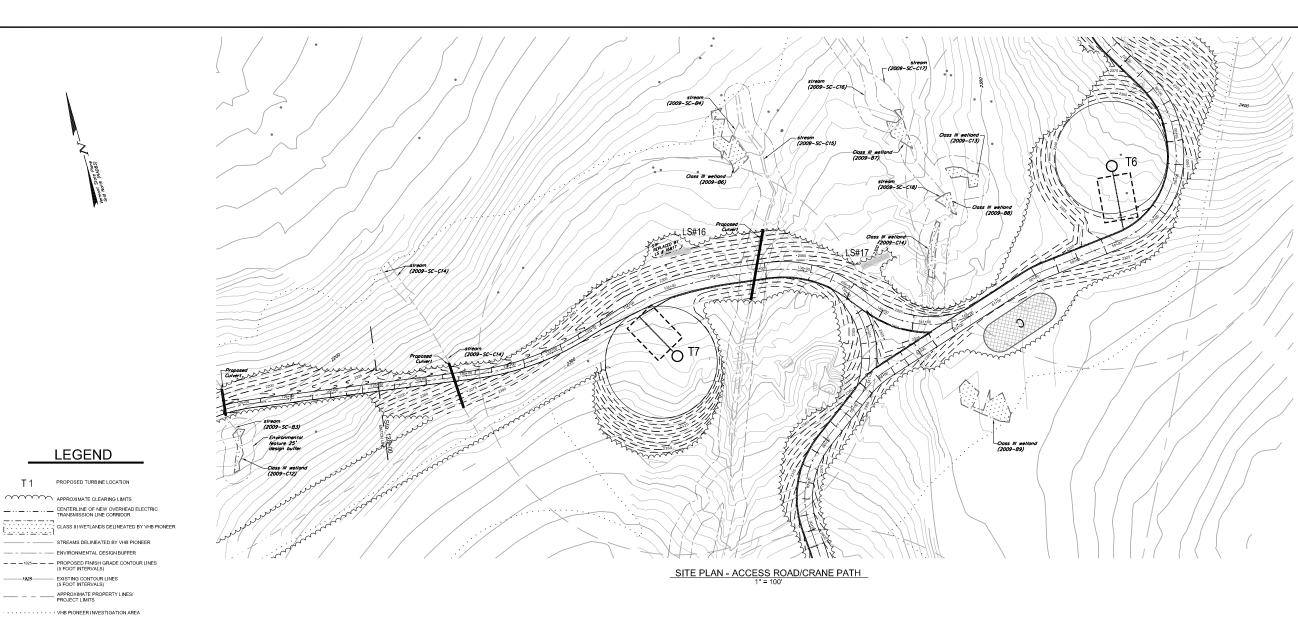




(21 TURBINES) PLAN AND PROFILE ACCESS ROAD

Station 107+50 to Station 128+00

Scale: varies



MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER \$\fomale \text{ S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER} 270 METER OFFSET FROM TURBINE CENTER STP FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

NOTES:

LS #1 LEVEL SPREADER

T 1

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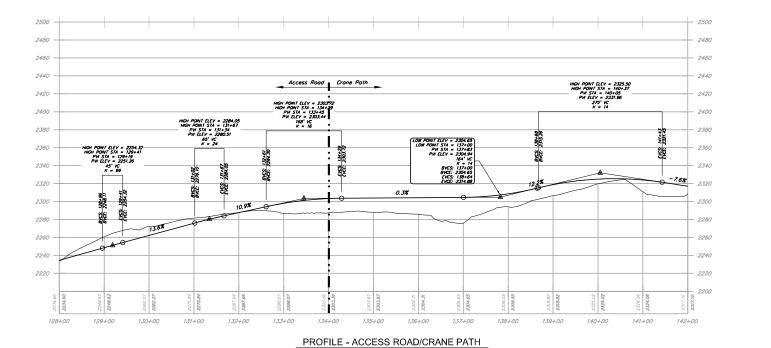
TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.

PROPOSED CRANE PAD

PROPOSED TURBINE FOUNDATION MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER

STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

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 MARKINGS. CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY
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2380 2380 2300

2420 2400

PROFILE - CRANE PATH SOUTHERN Y
HORIZ: 1" = 100'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

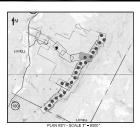
Topographic Mapping:
Bruno Associates Inc. PC
-Shapelikes within Contour Data 1-22-09 failer (on MERA
-Extended Sharefile website) as downloaded by fan A. Jewies on
10-14-08, file named ALL 10PO-0 INER (AutoCAO Shape
Source Ref)

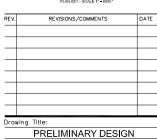
Property Boundary Information

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-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100'



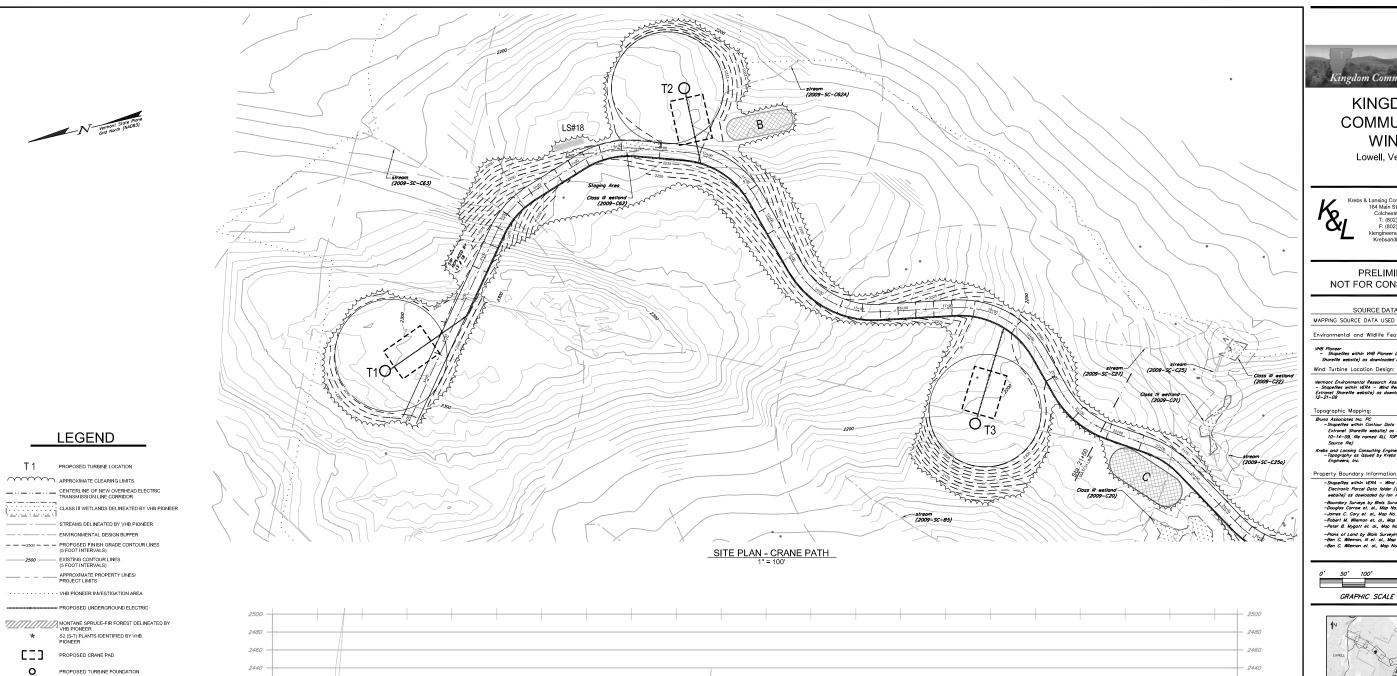


(21 TURBINES) PLAN AND PROFILE

ACCESS ROAD/CRANE PATH Station 128+00 to Station 142+00

Original Date of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



MET TOWER LOCATION

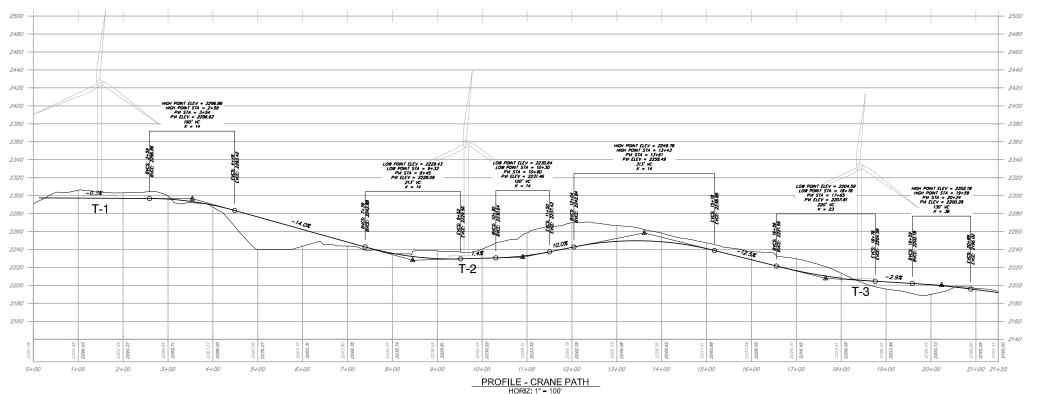
BSB IDENTIFIED BY VHB PIONEER 270 METER OFFSET FROM TURBINE CENTER

LS#1 LEVEL SPREADER

STP
REPLACED BY
LS | 1,283
FOOTPRINT OF CONVENTIONAL STP REPLACED BY
LEVEL SPREADERS

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
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KINGDOM COMMUNITY WIND

Lowell, Vermont

Krebs & Lansing Consulting Engineers, Inc 164 Main Street, Suite 201 Colchester, VT 05446 T: (802) 878-90375 F: (802) 878-9618 klengineers@Comcast.net

PRELIMINARY NOT FOR CONSTRUCTION

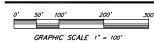
MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Topographic Mapping:
Bruno Associates Inc. PC
-Shapelikes within Contour Data 1-22-09 failer (on MERA
-Extended Sharefile website) as downloaded by fan A. Jewies on
10-14-08, file named ALL 10PO-0 INER (AutoCAO Shape
Source Ref)

Property Boundary Information

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-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
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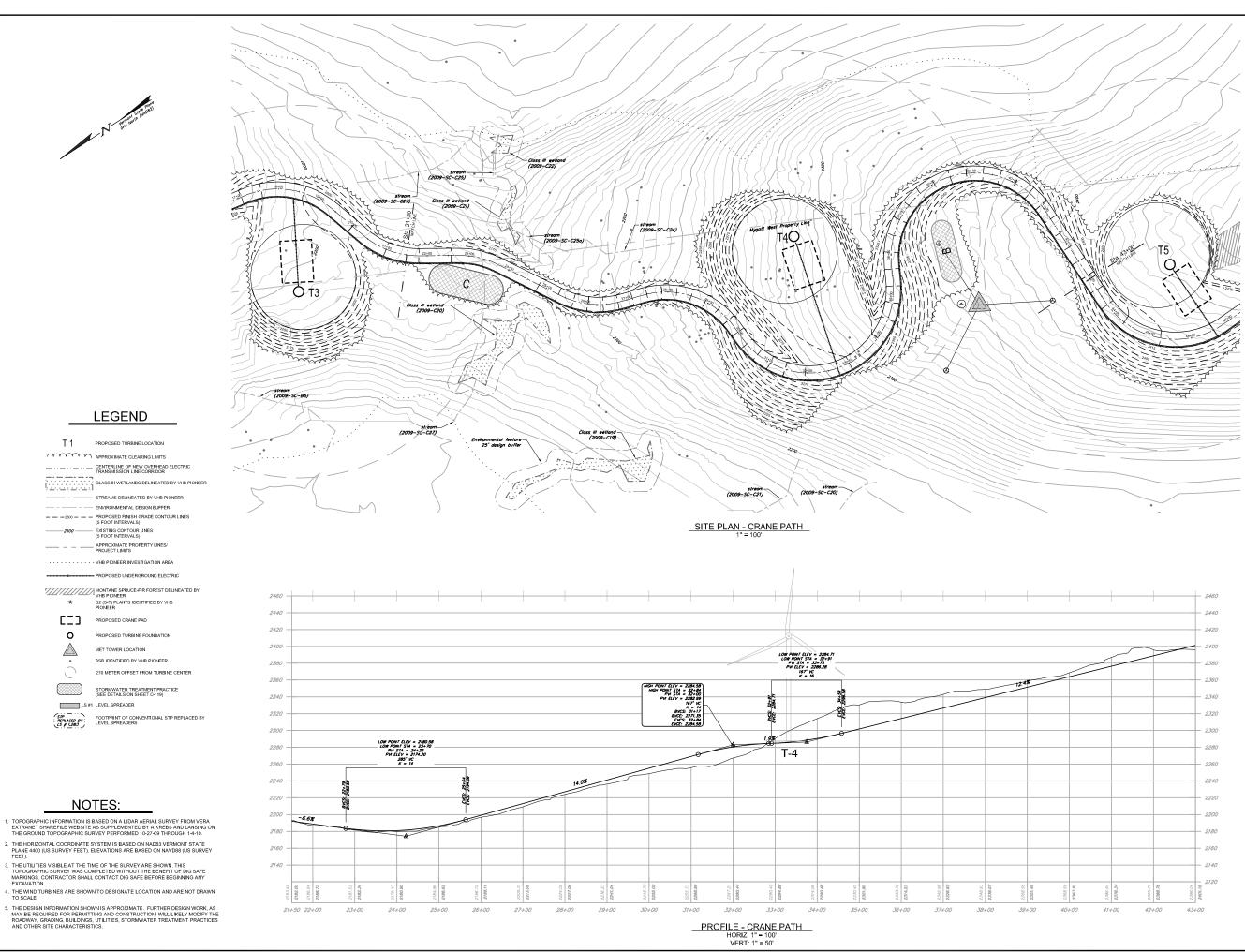


V.	REVISIONS/COMMENTS	DATE
raw	ving Title:	
	DDELIMINADY DEGICN	

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 0+00 to Station 21+50

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies



0

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

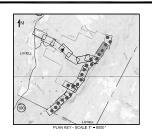
Topographic Mapping:
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GRAPHIC SCALE 1" = 100'





(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 21+50 to Station 43+00

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies

LS#17 T7 _stream (2009-5C-C16) SITE PLAN - CRANE PATH

PROPOSED UNDERGROUND ELECTRIC MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER ★ S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER PROPOSED CRANE PAD PROPOSED TURBINE FOUNDATION BSB IDENTIFIED BY VHB PIONEER 270 METER OFFSET FROM TURBINE CENTER STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119) LS#1 LEVEL SPREADER FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

NOTES:

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LEGEND

PROPOSED TURBINE LOCATION APPROXIMATE CLEARING LIMITS _____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR

CLASS III WETLANDS DELINEATED BY VHB PIONEER

- - - ENVIRONMENTAL DESIGN BUFFER

— — — 2500 — — PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS)

EXISTING CONTOUR LINES (5 FOOT INTERVALS)

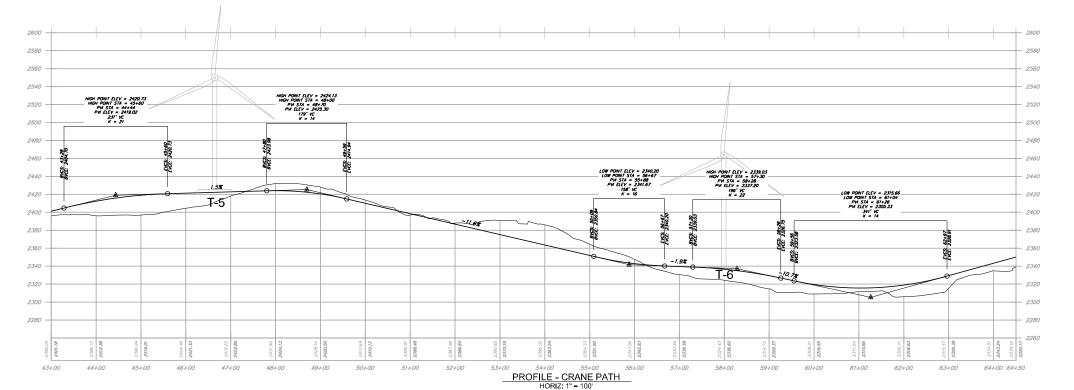
APPROXIMATE PROPERTY LINES/ PROJECT LIMITS

T 1

0

STP REPLACED BY LS # 1,245

- THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS
 TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE
 MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY
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Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

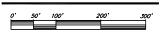
Environmental and Wildlife Features

Wind Turbine Location Design:

Topographic Mapping:
Bruno Associates Inc. PC
-Shapelikes within Contour Data 1-22-09 failer (on MERA
-Extended Sharefile website) as downloaded by fan A. Jewies on
10-14-08, file named ALL 10PO-0 INER (AutoCAO Shape
Source Ref)

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-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100"

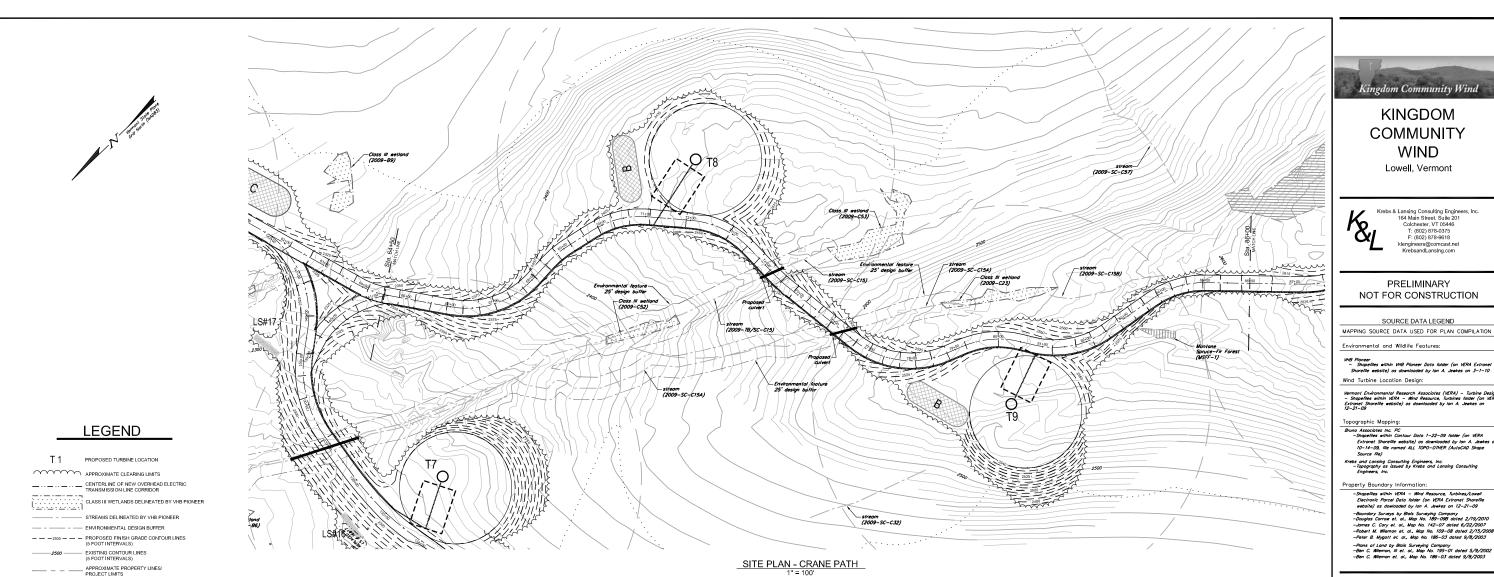


REV.	REVISIONS/COMMENTS	DATE
rawing	Title:	
	PRELIMINARY DESIGN	

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 43+00 to Station 64+50

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies



MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER

PROPOSED CRANE PAD

PROPOSED TURBINE FOUNDATION

0

MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER

STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119) LS #1 LEVEL SPREADER

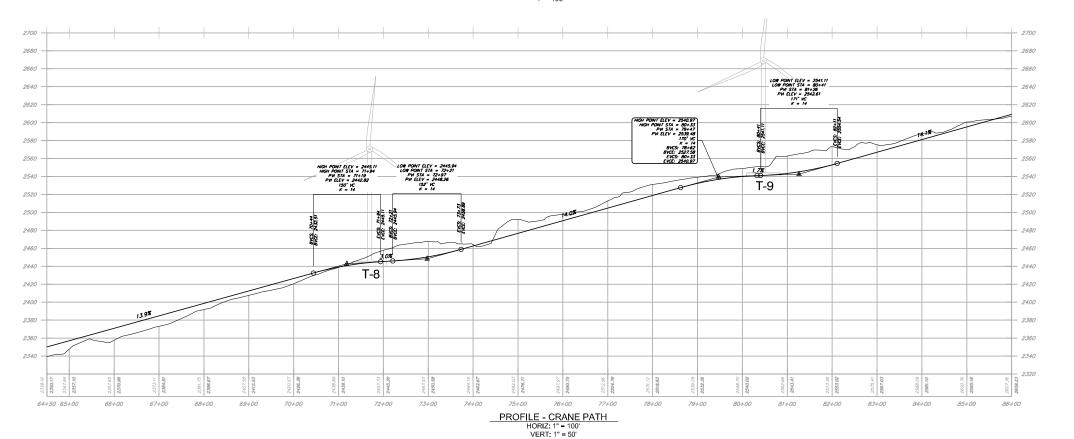
270 METER OFFSET FROM TURBINE CENTER

(SIP REPLACED BY LS # 1,243)

FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

NOTES:

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Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

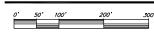
Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:
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Source Ref)

Property Boundary Information

-Pians of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100'



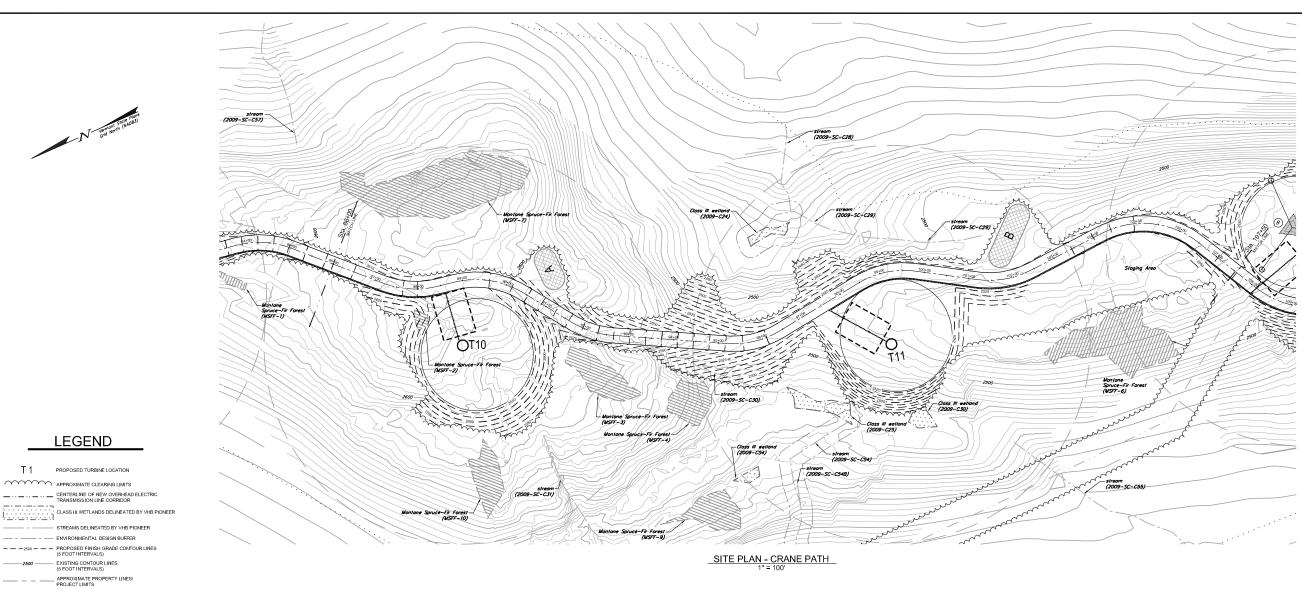
₹EV.	REVISIONS/COMMENTS	DATE
Drav	ving Title:	
	PRELIMINARY DESIGN	

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 64+50 to Station 86+00

Scale: varies

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198



2660 -2640 -2620 T-10 TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10. 2520

N Parion (Nuosa)

LEGEND

APPROXIMATE CLEARING LIMITS

----- = ENVIRONMENTAL DESIGN BUFFER

· · · · · · · · · · · · · · · · · · VHB PIONEER INVESTIGATION AREA

— — — 2500 — — PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS)

- EXISTING CONTOUR LINES (5 FOOT INTERVALS) APPROXIMATE PROPERTY LINES/ PROJECT LIMITS

PROPOSED UNDERGROUND ELECTRIC MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER

PROPOSED TURBINE FOUNDATION

BSB IDENTIFIED BY VHB PIONEER

STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

(SIP REPLACED BY LEVEL SPREADERS)

FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

LS #1 LEVEL SPREADER

NOTES:

THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS
TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE
MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY
EXCAVATION.

4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.

5. THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.

PROPOSED TURBINE LOCATION

CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR

T 1

HIGH POINT ELEV = 2544.24 HIGH POINT STA = 105+77 - PM STA = 105+57 PM ELEV = 2551.76 232* VC K = 14 HIGH POINT ELEV = 2522.30 HIGH POINT STA = 99+39 PVI STA = 99+60 PVI ELEV = 2522.45 78' VC K = 37 -14.00 ğ -1.6% T-11 2500 2480 89+00 91+00 93+00 97+00 105+00 106+00

PROFILE - CRANE PATH HORIZ: 1" = 100'

VERT: 1" = 50'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

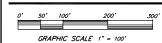
Topographic Mapping:
Bruno Associates Inc. PC
-Shapelikes within Contour Data 1-22-09 failer (on MERA
-Extended Sharefile website) as downloaded by fan A. Jewies on
10-14-08, file named ALL 10PO-0 INER (AutoCAO Shape
Source Ref)

Krebs and Lansing Consulting Engineers, Inc.

- Tappargaphy as issued by Krebs and Lansing Consulting
Engineers, Inc.

Property Boundary Information

-Pians of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



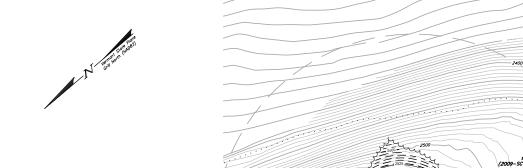


REV.	REVISIONS/COMMENTS	DATE
)rav	wing Title:	
	PRELIMINIARY DESIGN	

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 86+00 to Station 107+50

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies



LEGEND

T 1 PROPOSED TURBINE LOCATION APPROXIMATE CLEARING LIMITS

_____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR CLASS III WETLANDS DELINEATED BY VHB PIONEER - STREAMS DELINEATED BY VHB PIONEER

— - — - ENVIRONMENTAL DESIGN BUFFER - - - 2500 - - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) 2500 — EXISTING CONTOUR LINES (5 FOOT INTERVALS)

APPROXIMATE PROPERTY LINES/
PROJECT LIMITS · · · · · · · · · · · · · · · · · · VHB PIONEER INVESTIGATION AREA

PROPOSED UNDERGROUND ELECTRIC

MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER

0

PROPOSED TURBINE FOUNDATION

MET TOWER LOCATION 270 METER OFFSET FROM TURBINE CENTER

STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

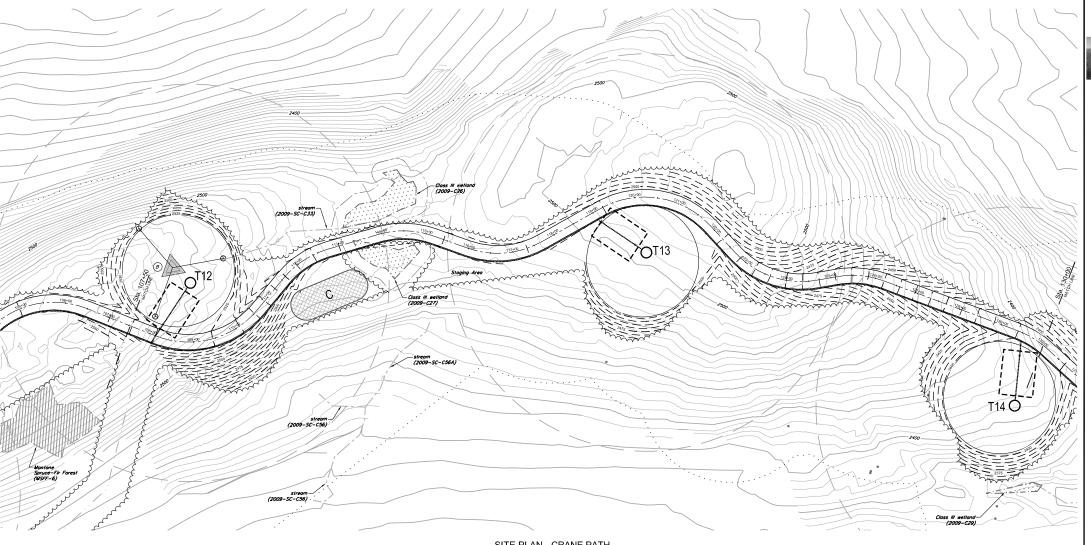


(STP ACED BY LEVEL SPREADERS

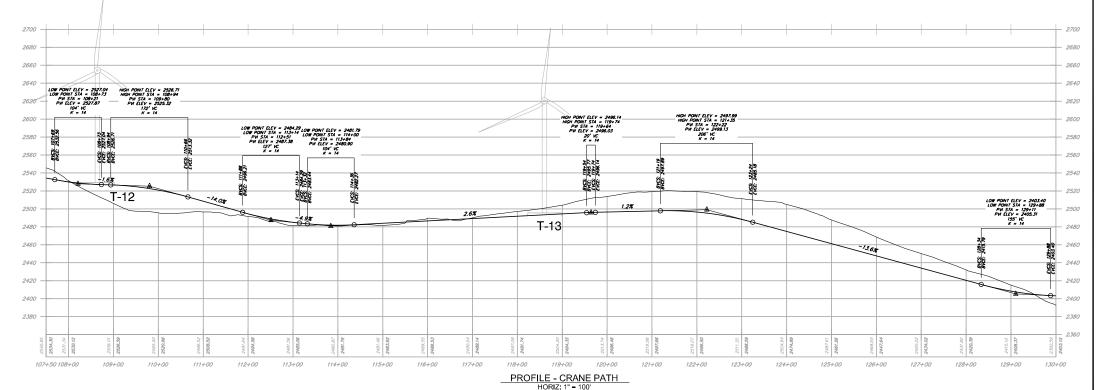
FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS
 TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE
 MARKINGS. CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY
 EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
- 5. THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.



SITE PLAN - CRANE PATH



VERT: 1" = 50'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:
Bruno Associates Inc. PC
-Shapelikes within Contour Data 1-22-09 failer (on MERA
-Extended Sharefile website) as downloaded by fan A. Jewies on
10-14-08, file named ALL 10PO-0 INER (AutoCAO Shape
Source Ref)

Property Boundary Information

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-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100"





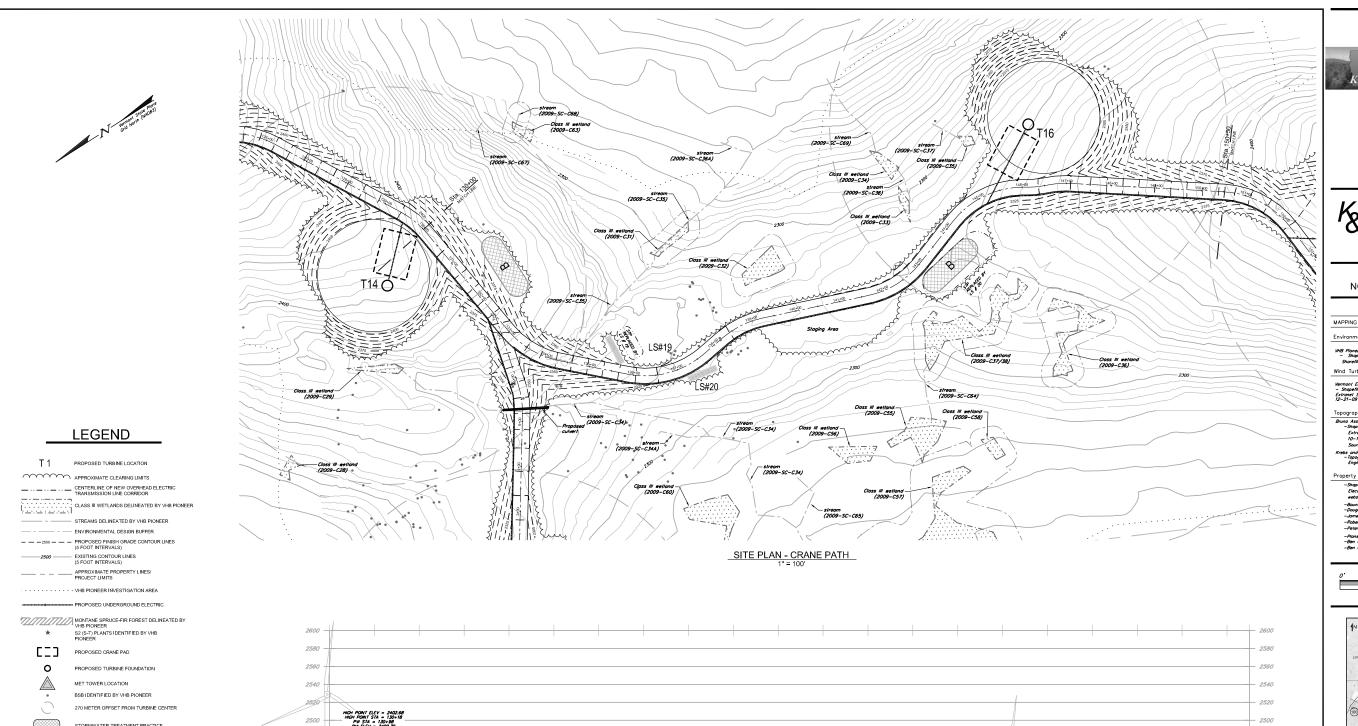
Drawing Title

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 107+50 to Station 130+00

Original DATE of Issue: 03/30/10

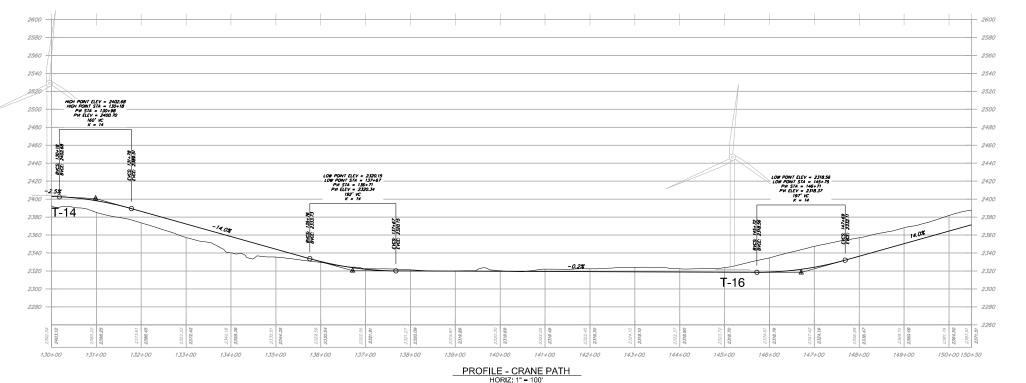
Project No.: 09198 Scale: varies



STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119) LS #1 LEVEL SPREADER REPLACED BY: LS # 1,245 FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
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VERT: 1" = 50'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:
Bruno Associates Inc. RC
-Phopolites within Contour Data 1-22-09 folder (an VERA
Extranel Strantile website) as downloaded by fan A. Imetes on
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Source Re)

Krebs and Lansing Consulting Engineers, Inc.

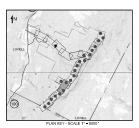
- Topography as issued by Krebs and Lansing Consulting Engineers, Inc.

Property Boundary Information

-Pians of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100'

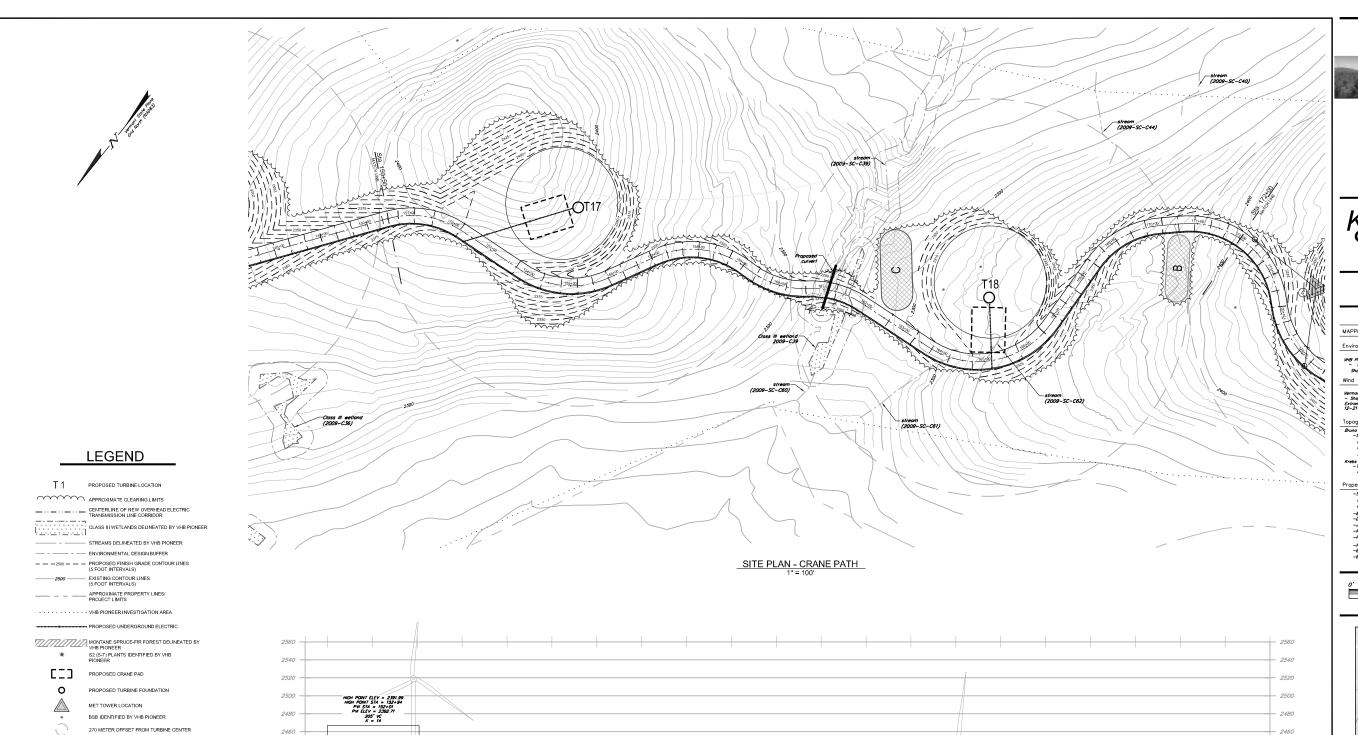


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	PRELIMINARY DESIGN	

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 130+00 to Station 150+50

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies



1400 FT. OFFSET FROM WIND BLOWN ENERGY, LLC CAMP

STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

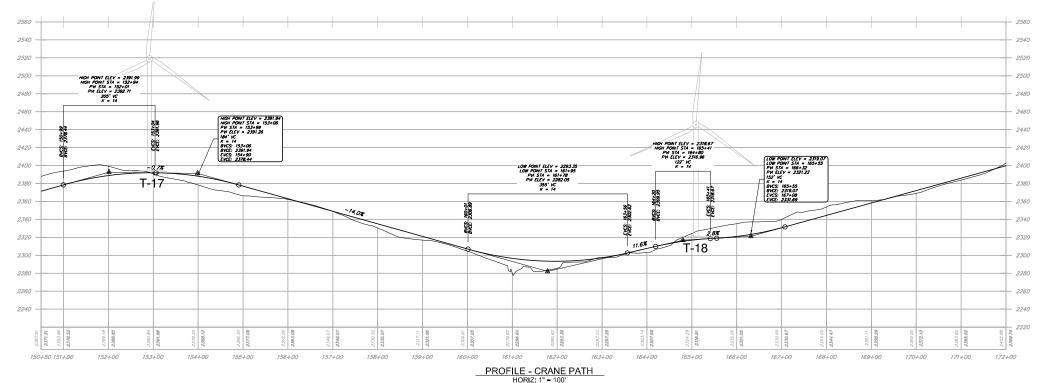
FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

NOTES:

LS #1 LEVEL SPREADER

REPLACED BY

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
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VERT: 1" = 50'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:
Bruno Associates Inc. PC
-Shapelikes within Contour Data 1-22-09 failer (on MERA
-Extended Sharefile website) as downloaded by fan A. Jewies on
10-14-08, file named ALL 10PO-0 INER (AutoCAO Shape
Source Ref)

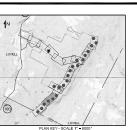
Krebs and Lansing Consulting Engineers, Inc.

- Topography as issued by Krebs and Lansing Consulting
Engineers, Inc.

Property Boundary Information

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-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'



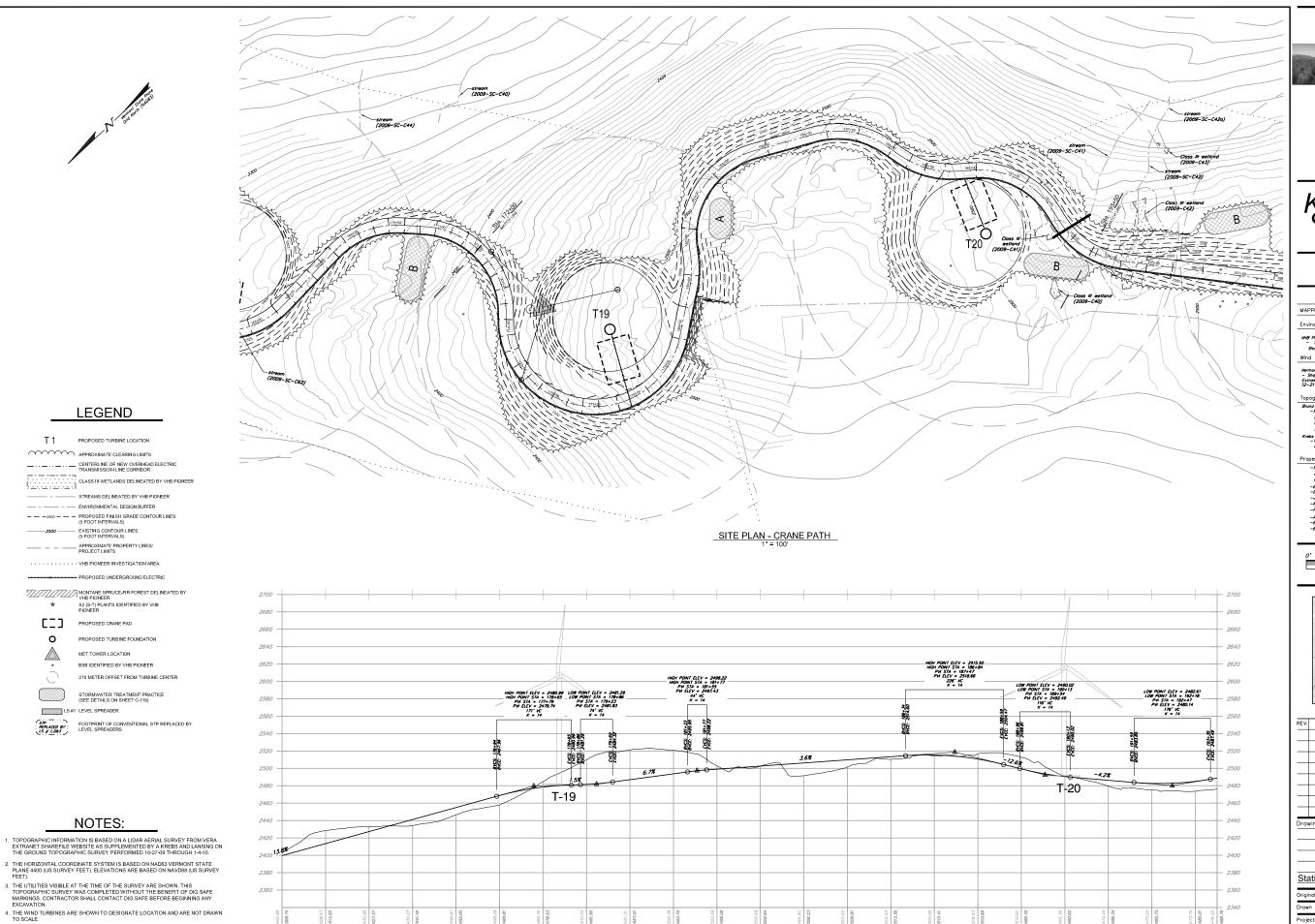
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KEV.	REVISIONS/COMMENTS	DATE
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	DDELIMINIADY DES	ICN

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 150+50 to Station 172+00

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



5. THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.

175+00

174+00

172+00

173+00

177+00

176+00

178+00

179+00

180+00

181+00

183+00

PROFILE - CRANE PATH
HORIZ: 1" = 100'

VERT: 1" = 50'

184+00

185+00

186+00

187+00

188+00

189+00

190+00

191+00

192+00

193+00 193+50

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:
Bruno Associates Inc. PC
-Shapelikes within Contour Data 1-22-09 failer (on MERA
-Extended Sharefile website) as downloaded by fan A. Jewies on
10-14-08, file named ALL 10PO-0 INER (AutoCAO Shape
Source Ref)

Krebs and Lansing Consulting Engineers, Inc.

- Topography as issued by Krebs and Lansing Consulting Engineers, Inc.

Property Boundary Information

-Pians of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2003
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'





(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 172+00 to Station 193+50

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



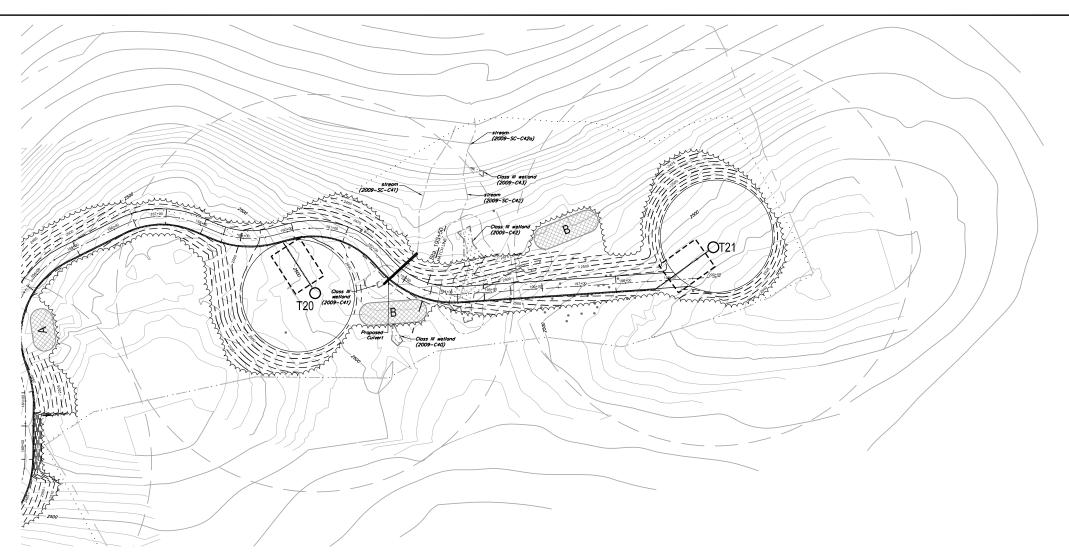
LEGEND

T 1 PROPOSED TURBINE LOCATION APPROXIMATE CLEARING LIMITS _____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR TRANSMISSION LINE CORRIDOR

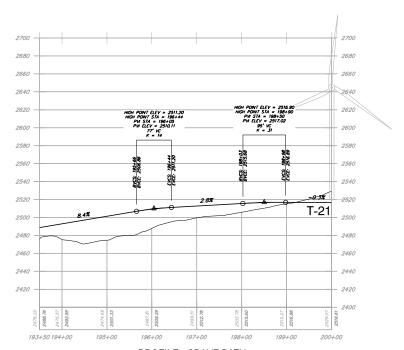
CLASS III WETLANDS DELINEATED BY VHB PIONEER ------ ENVIRONMENTAL DESIGN BUFFER — — — 2500 — — PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) 2500 — EXISTING CONTOUR LINES (5 FOOT INTERVALS) - - APPROXIMATE PROPERTY LINES/ PROJECT LIMITS PROPOSED UNDERGROUND ELECTRIC MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER * S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER PROPOSED CRANE PAD 0 MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER LS #1 LEVEL SPREADER SIP FOOTPRINT OF CONVENTIONAL STP REPLACED BY LEVEL SPREADERS

NOTES:

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- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
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SITE PLAN - CRANE PATH



PROFILE - CRANE PATH
HORIZ: 1" = 100' VERT: 1" = 50'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

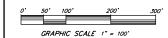
Topographic Mapping:
Bruno Associates Inc. PC
-Suppolese within Contour Data 1-22-09 failer (an MERA
-Extranel Sharefile metastic) as downloaded by fan A. Jewies on
10-14-08, Rie named ALL 1709-0 THER (AutoCAD Shape
Source Rie)

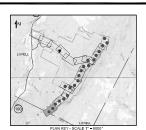
Krebs and Lansing Consulting Engineers, Inc.

- Topography as issued by Krebs and Lansing Consulting Engineers, Inc.

Property Boundary Information

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-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003





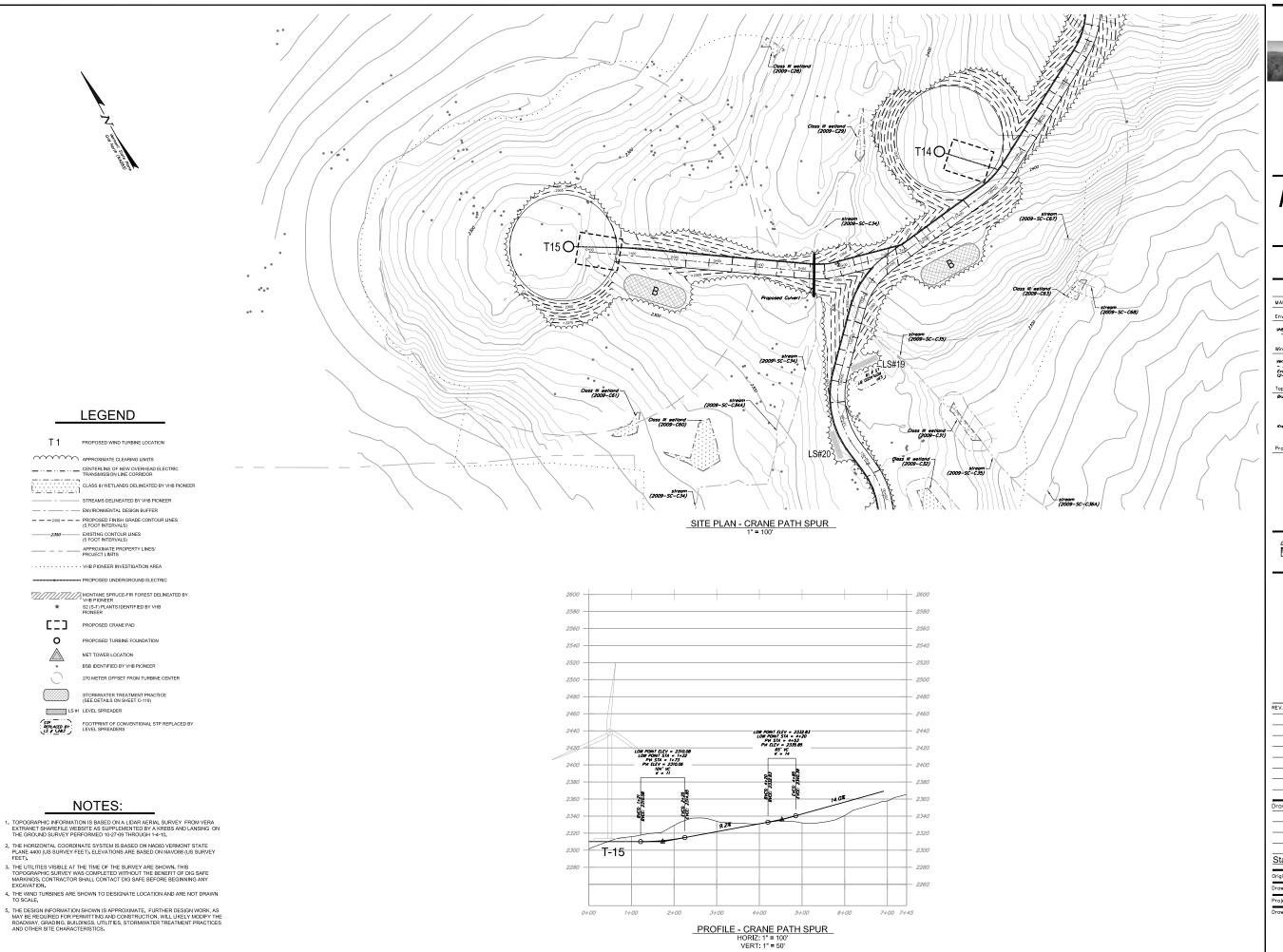
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itle:	
	REVISIONS/COMMENTS

(21 TURBINES) PLAN AND PROFILE CRANE PATH

Station 193+50 to Station 200+00

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:
Brune Associates Inc. PC
-ShapeRew within Contour Data 1-22-09 forter (an VERA
-Extranet ShareRie website) as downloaded by fan A. Jenkes or
10-14-03, Re names ALL TOPO-DITER (AutoCAD Shape
-Source Rie)

-ShapeRies within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet ShareRie website) as dowloaded by Ian A. Jewkes on 12-21-09

-Pians of Land by Blais Surveying Company -Ben C. Wileman, III et. al., Map No. 195-01 dated 5/9/2003 -Ben C. Wileman et. al., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'



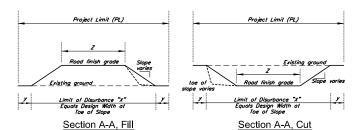
EV.	REVISIONS/COMMENTS	DATE		
rawing Title:				

PRELIMINARY DESIGN (21 TURBINES) PLAN AND PROFILE CRANE PATH SPUR

Station 0+00 to Station 7+45

Original Date of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



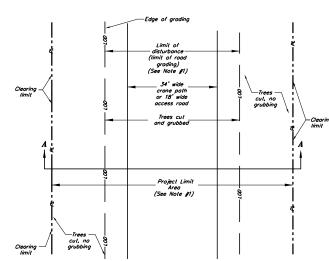
Z = Road Surface for either Access Road or Crane Path, Project Limit (PL) is the Area of trees cut, Limit of Disturbance (LOD) = Area Grubbed (Stumps removed) (= "X"), y = Area where tree stumps remain

- For the purposes of local cut and fill balancing of the site, the following variability is incorporated into the design:

 1.) Vertical alignment of the road surface and other improvements may vary up to 8'±;
 2.) Horizontal alignment of the road surface "Z" and other improvements may vary up to 30' in either direction while:
 - a.) Staying within the PL area:
 - b.) and Never having a greater disturbed area ("X") than shown on the design drawings.

The Project Limit width varies depending on conditions encountered. The Project Limit width is from toe of slope to toe of slope (including stormwater treatment practices) + an additional variable width "y", with "y" between 0' and 30', on each side as outlined below. Conditions effecting the Project Limit Width are as follows:

- For all areas where the Limit of Disturbance "X" is greater than or equal to 150", no additional lateral variability will be used (y = 0 ft.).
- For FILL areas where the Limit of Disturbance "X" is greater than 90' and less 150', an
 additional lateral variability between 0' and 30' will be used (PL = 150, y <= 30').
- For Fil.L areas where the Limit of Disturbance "X" is less than 90' on additional lateral variability of 30' will be used (y = 30', PL = 2y + X).
- For (1) CUT areas in Soil substrate; and (2) CUT areas in Rock substrate on the Access Rood; where the Limit of Disturbance "X" is greater than 90° and less 150°, an additional lateral variability between 0° and 30° will be used (PL = 150, $y \le 30$ °).
- For (1) CUT areas in Soil substrate; and (2) CUT areas in Rock substrate on the Access Road; where the Limit of Disturbance "X" is less than 90' an additional lateral variability of 30' will be used (y = 30', PL = 2y + X).
- For CUT areas in Rock substrate on the Crone Path where the Limit of Disturbance "X" is greater than or equal to 90, no additional lateral variability will be used (y = 0 ft. PL = X).
- For CUT oreas in Rock substrate on the Crane Path where the Limit of Disturbance "X" is less than 90', the overall Project Limit (PL) will be a fixed 90'.
- Project limit will be expanded by 10° on the downhill side of fill areas to allow for erosion prevention and sediment control measures. In these conditions, where "y" is >= 10°, the erosion prevention and sediment control measures will be within the "y" area.



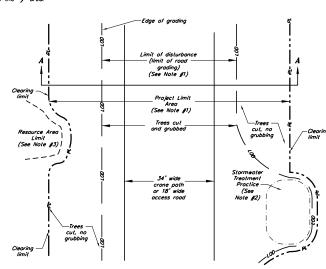
REFER TO SECTION A-A AND NOTES ABOVE FOR DESCRIPTION OF PROJECT LIMIT AND LIMIT OF DISTURBANCE.

- Notes:

 1. The olignment of the LOD for the access road and the olignment of the LOD for the crane path may be adjusted laterally and vertically as indicated above within the project limit for the purposes of local cut and fill balancing. Any such lateral adjustment shall be within the project limit area is fixed as shown on plans.

 2. The Project Limit wide is from toe of stope to late of stope (including stormwater treatment practices) and can include an additional variable width "y" of up to 30" on each side as outlined above. The presence of Resource Areas may dictate a reduced width.

Plan View (Standard)



REFER TO SECTION A-A AND NOTES ABOVE FOR DESCRIPTION OF PROJECT LIMIT AND LIMIT OF DISTURBANCE.

- Notes:

 1. The olignment of the LOD for the access road and the olignment of the LOD for the crone path may be odistred laterally and wertically as indicated above within the project limit for the purposes of local cut and file bolancing. Any such lateral adjustment shall be within the project limit area is fixed as shown on plans.

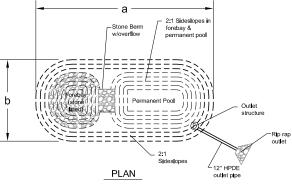
 2. Stormwater Freatment Proceities are to be sized, oriented and located in accordance with VT DEC approvat.

 3. Disturbance in Resource Areas is allowed only as indicated on the plans.

 4. The Project Limit width is from toe of slope to toe of slope fortuding stormwater treatment practices) and can indicate an additional variable width by of up to 30° on each side as authined above. The presence of Resource Areas may dictate a reduced width.

Plan View (Adjusted)

Variable Road Location Detail



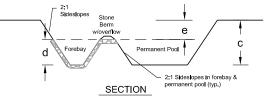
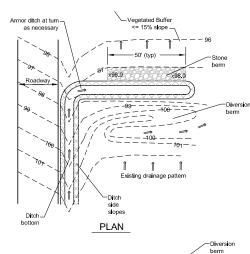
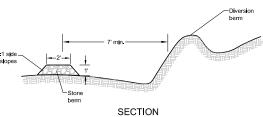


	TABLE OF A	PPROXIMATE F	OND DIMENSI	ONS (In feet)	
POND TYPE	а	b	С	d	е
А	83	38	7	4	3
В	138	38	7	4	3
С	168	58	7	4	3

Schematic Stormwater Pond Details (Alternative Design)





Level Spreader Detail

N. T. S.

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION Environmental and Wildlife Features:

VHB Pioneer

- ShapeRies within VHB Pioneer Data folder (on VERA Extranel Sharefile mebsite) as downloaded by Ion A. Jewkes on 3-1-10

Wind Turbine Location Design:

Topographic Mapping:

Bruno Associates Inc. RC

Bruno Associates Inc. RC

Extraord Sharefile existing Contour Data 1-22-09 faider (on VERA

Extraord Sharefile existing) as downloaded by fan A. Jeekes on
10-14-09, file named ALL TOPO-DINER (AutoCAD Shape

Source Risk)

Krebs and Lansing Consulting Engineers, Inc.

- Topography as issued by Krebs and Lansing Consulting
Engineers, Inc.

-Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data Tolder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09 -Boundary Surveys by Blais Surveying Company
-Douglas Corrow et. al., May No. 183-989 dated 2/19/2010
-James C. Cory et. al., May No. 184-07 dated 5/22/2007
-Robert M. Mileman et. al., May No. 109-08 dated 2//2/2007
-Peter M. Migell et. al., May No. 106-01 dated 3/8/2003

-Plans of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/200.
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003

REVISIONS/COMMENTS Drawing Titl

PRELIMINARY DESIGN DETAILS

VARIABLE ROAD LOCATION & STORMWATER TREATMENT PRACTICE TYPICALS

Original Date of Issue: 03/30/10

Drawn by: SDG Checked by: IAJ Project No.: 09198 Scale: N.T.S.

Drawing No.:

INDEX OF EROSION CONTROL MEASURES

1. Seed and Mulch To be applied to all disturbed areas, whether or not the disturbed area has been scheduled for treatment. Mulch is to be secured in wind swept areas.

2. Stone Check Dam To be placed in swales to intercept small amounts of sediment from disturbed work areas. To be used an disturbed grades and side slapes with moderate to high potential for erosion, or used in lieu of mulch in wind spent areas. 3. Erosion Control Blanke

4. Silt Fence

To be used along a slope to trap sediment on site, particularly up gradient of sensitive areas.

Fencing to be used to clearly define the limits of the construction area, can be chain-linked fence, snow fence, orange safety fencing or orange polyester mesh webbing (2" min. width).

To be used at construction access roads to lessen tracking of mud. 6. Stabilized Construction Roads To be used at all new and existing catch basins within the construction limits to intercept silt and sediment from entering the starmwater collection system. 7. Catch basin inlet protection

To be used at construction exit locations to minimize potential for tracking sediment off-site. Truck wash stations shall be existing powement when available or 12" thick x 15" wide x 30" long pad of 4" minus crushed stone. A temporary water source must be provided with sufficient pressure to remove silt from the construction webides. 8. Truck Wash Stations

Erosion Control Measures #1

5. Construction Limit Barrier

SOIL EROSION AND SEDIMENT CONTROL:

Erosion and sediment control measures shall be planned and field implemented prior to beginning clearing and staging operations.

Tracking of Mud and Saik. The tracking of mud and said and existing roads adjacent to the Right-of-May access points shall not be adjacent. If necessary, a stabilized construction entrances shall be histolized consisting of an 8" algoth of stone 4" in or less that the construction entrances in the property of the pro

There may be times when it is not possible to complete the stabilization of an area within 48 hours, due to exceptional excumstances. If such a situation arises the On-Site Coordinator excumstances if such a situation arises the On-Site Coordinator measures shall be researched by the Engineer. Additional ensoination control measures with oe ordered at that point, if they are necessary to prevent movement of sediment off site or to the solers of the Side. The objective or prompt stabilization is to kimit the areas of Side. The objective or prompt stabilization is to kimit the areas of

Excavation and Backfill: Subsoit and topsoit from the grading and excavation shall be separated and piled individually for reuse so far as possible. See construction conditions for welland areas.

our requires to stoomer the disturbed orees.

In period, slones, rocks and debris shall be removed from the surface. All breats in grade shall be leveled the surface shall be throughly rolled, dispequent or otherwise mechanically smoothest. When necessary the soil shall be lossened to a 2 depth, smoothest. When necessary the soil shall be lossened to a 2 depth, surface consistent with the surrounding area and the pre-construction condition. At a minimum, disturbed areas shall graded with a small obser, seeded and mutotice.

Where the existing topsoil cannot be saved for reuse, supplemental topsoil shall be obtained from other sources

Topsoit: Topsoit shall be applied to match the original depth on fields and other moved grass overs (4" minimum or as specified on the plants). Topsoit shall be of a quality to support vigorous plant to the plants, I reposit shall be of a quality to support vigorous plant brush, weeds or other material detrimental to plant growth. Topsoit shall not contain less than 31 organic matter, humus, by wellow

Seeding Schedule: The seed shall be applied, at the rates indicated as soon as possible after disturbance. Re-seeding shall be required if a vigorous growth is not achieved, or if seeding is after September 15th.

Note: This seed mixture is a slight variation of the "Conservation Mix" sold by Oliver Seed. The required seed mixture was chosen to match the soil types that will be encountered on this project.

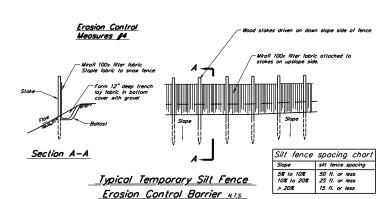
SEED WT/ACRE RECOMMENDED VARIETY Tall Fescue 50 lbs Ky JI am, Wintergreen, Ensylve Creeping Red Fescue 5 lbs Penniam, Wintergreen, Ensylve Comer Vetch 6 lbs Penniam, Chemung Annual Rye 20 lbs Penniam Rye 15 lbs Prona (non endaphyte) White Clover Kentucky Bluegrass 15 lbs

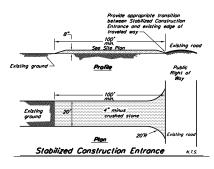
Total 200 lbs per acre

8. Multih: Application of mulch hay shall immediately fallow seeding operations, and in no case greater than 24 hours later. Use of mulch and tipe of mulch and sead shall be approved by landsmen. Mulch shall be applied at the rate of 2 lons/bore, or a uniform 2° to 3° asph. Mulch shall be secured in with seady oness and on stages by maph. The shall be seen to see the shall be seen to stage the shall be sh

Mulch hay shall consist of mowed and properly cured grass or legume mowing, reasonably free from swamp grass, weeds, lwigs, debris or other deleterious material. It shall be free from rot or mold.

Erosion Control Blanket: Erosion control blanket, 'North American Green 575' or approved equal shall be installed on disturbed road side embaniments, disturbed steep stopes, and adjecent to waters and other critical areas. Erosion control blanket shall be installed in accordance with the manufacture's written

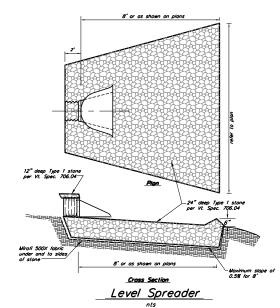


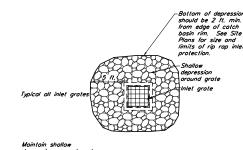


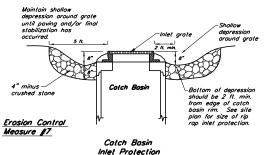
Erosion Control Measure #6

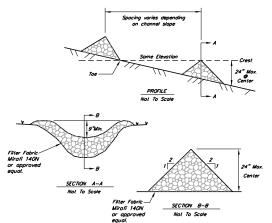
Note: - Contractor shall stabilized construction entrance as required to prevent tracking of sediment off-site.

- Contractor to use Mirafi 500x under stone for temporary construction
- Crushed stone shall be added or replaced when 80% of the voids are filled with sediment.









Erosion Control Measure #2

CONSTRUCTION SPECIFICATIONS

- Stone will be placed on a filter fabric foundation to the lines, grades and locations shown in the plan.
- Set spacing of check dams to assume that the elevations of the crest of the downstream dam is at the same elevation of the toe of the
- 3. Extend the stone a minimum of 1.5 feet beyond the ditch banks to prevent cutting around the dam.
- Protect the channel downstream of the lowest check dam from scoul and erosion with stone or liner as appropriate.

Stone Check Dom

Erosion Control Measure #3 Erosion Control Blanket

North American Green S75

Material Specifications Erosion control blanket shall be a machine-produced mat of 100% agricultural straw.

The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the tap side with polyproplene netting having an approximate 1/2" x 1/2" mesh and be seem tagether with colton threads.

Straw erosion control blanket shall be S75 as manufactured by North American Green, Inc. (812-867-6632) or equivalent. Erosion control blanket shall have the following properties:

Straw 100% (.50 lbs/sq.yd.) (.27 kg/m2) Netting One side only, photodegradable

6.5 feet (2m) 83.5 feet (25.4m) 30 lbs +/- 10% (13.6 kg) 60 sq. yds. (50m2)

North American Green SC150

Material Specifications

Erosion control blanket shall be a machine-produced mat with a 70% agricultural straw and 30% coconut liber matrix

The blanket shall be a consistent thickness with an even distribution of straw an coconut stitched between a heavy weight photodegrable polypropylene netting on the top side and a lightweight photodegradable polypropylene netting on the battom side.

Straw/Coconut erosion control blanket shall be SC150 as manufactured by North American Green, Inc. (812–867–6632) or equivalent.

Motini 70% strow River (35 Rs/sq.yd.) (19 kg/m2) 30% coconst River (15 Rs/sq.yd.) (19 kg/m2) Netting Weight approximately 15 Rs/sq.yd. (26 kg/m2) Weight approximately 15 Rs/R005 sq. II. Bollom side, light-weight photodegradable Weight approximately 16 Rs/R005 sq. II.

Width 6.67 feet (2.03m)
Length 108 feet (32.92m)
Weight 40 lbs +/- 10% (18.14 kg)
Areo 80 sq. yds. (66.9m2)

[-12"-

Netting product for mulch

Nedio Enterprises Inc., KoirMat 400 (or approved equal) natting of coir yarn made from high strength white (retted) coconut fiber

SLOPE INSTALLATION

NORTH AMERICAN GREEN

I. REFERRE SOL BEFORE MISTALINE BANKETS, INCLUDED, ANY INCLUDED PLANCES OF UNK. TERRALISES, MO SEED, MOTE WHEN LANGE ALLO-SEED DO NOT DEPTHEMEN MAKE ACLO-SEED WITH RESISALID WHEN PERFER SOC DOME.

BEGIN AT THE LOP OF THE SLOWE BY ANCHORNE THE BANKET HE A. B.* (150-0) DEEP 8. B.* (150-0) MEET REFER.

BEGIN AT THE LOP OF THE SLOWE BY ANCHORNE BY ANY INCLUDING SEED OF THE STATE OF THE SEED OF THE SEED

SIMPLES SIMES SHALL DEPROGRAMENT IZ (SOUTH) WHICH ARROSS THE SECTION THE BUILD THE BURNETS (A) DOWN (B), HORDONALLY ACROSS THE SECTION BURNETS BALL UNROLL WITH APPROPRIATE SOCIAL PROPERTY OF THE SECTION BURNETS BALL UNROLL WITH APPROPRIATE SOCIAL PROPERTY OF THE SECTION BURNETS BALL UNROLL WITH APPROPRIATE SOCIAL PROPERTY OF THE SECTION BURNETS BALL UNROLL WITH APPROPRIATE STAFF SECTION BURNETS BALL UNROLL WITH BURNETS BALL UNROLL WITH BURNETS BALL WITH B

THE EDGES OF PARALEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERAP DEPENDING ON BLANKET THE TO INSURE PROPER SEAM ALCOMENT, PLACE THE EDGE OF THE OVERAPPING BLANKET (BLANKET BEING INSTALLED BOTTO) EVEN WITH THE COLORDO SEAM STRICT! ON THE PREMODELY INSTALLED BLANKET.

S. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STITLE) WITH AN APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE
BLANFT WORLD.

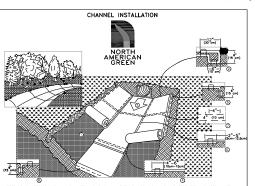
NOTE:
"IN LODGE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAM 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725 USA 1-800-772-2040 CANADA 1-800-448-2040

2*-5* (5cm-12.5cm)

Physical Specifications (Roll)
Thickness 0.35 in
Mass per unit one (min):
11.8 02/sq yd.
Wide width tensits strength-Dr. (MDCD):
504 x 480 los/fl
Wide width tensits strength-Dr. (MDCD):
338 x 348
Wide width tensits strength-Net (MDCD): 456 x 360 los/fl
Mos. adongation—Net (MD x 0.0): 438 x 348
Wide width tensits strength-Net (MDCD): 456 x 350 los/fl
Mos. adongation—Net (MD x 0.0): 438 x 348

Installed as per manufacturer's specification



PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LAWE, FERTILIZER, AND SEED, NOTI BIRCH LOWING CULL-0-SEED ON ION SEED PROPMED MAX. CULL-0-SEED MSF IRE INSTITUTE WITH PMPF SEE DOWN BIRCH AT THE TOP OF THE CHAMBLE, BY MONORING THE BURNET IN A 6" (1907) DEFF IR 6" (1907) MSR CHAMBLEY IN CONTROL OF THE CHAMBLE SEED OF THE CHAMBLE OF THE CHAMBLE SEED OF THE SEED OF THE CHAMBLE SEED OF THE SEE

PROJECT REMART IN DISCISSION OF MATER FLOW IN BOTH OF CHANGE SHARETS BLU LABOLL HILL PROPRIENTS OF CHANGE SHARET BLU LABOLL HILL PROPRIENTS OF CHANGE SHARET SHARET SHARETS FINANCE SHARETS FI

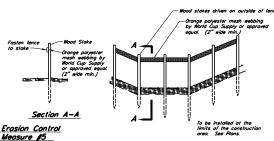
A CONTROL OF THE PROPERTY OF T ADJACENT BLANKETS MUST BE OVERJAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET IPPE), AND STAPLED. TO EXSURE PROPER SEAM AUGMENT, PLACE THE EDGE OF THE OVERJAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STRICT"ON THE BLANKET BEING OVERJAPPED.

IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERNALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL. 3. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAVES APPROXMATELY 12" (30cm) APAR IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



NOTE:
• HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE. ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725 USA 1-800-772-2040 CAMADA 1-800-448-2040



Typical Construction Limit Barrier N.T.S.

Material Content

Physical Specifications (Roll)

Krebs & Lansing Consulting Engineers, Inc. 164 Main Street, Sulte 201 Colchester, VT 05446 T: (802) 878-0375 F: (802) 878-9618

Kingdom Community Wind

KINGDOM

COMMUNITY

WIND

Lowell, Vermont

PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

VHB Pioneer

- ShapeRies within VHB Pioneer Data folder (on VERA Extranet ShareRie website) as downloaded by Ian A. Jewkes on 3-1-10

Wind Turbine Location Design:

Krebs and Lansing Consulting Engineers, Inc.

- Topography as issued by Krebs and Lansing Consulting
Engineers, Inc.

-Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

-Boundary Surveys by Blois Surveying Company -Bouglas Currow et al., Map No. 189-088 dated 2/19/2010 -James C. Cary et. al., Map No. 142-07 dated 6/22/2007 -Robert M. Wileman et. al., Map No. 109-08 dated 2/15/2005 -Peter B. Mypott et. al., Map No. 186-03 dated 3/2/2003

-Plans of Land by Blais Surveying Company
-Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/200
-Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003

REVISIONS/COMMENTS

PRELIMINARY DESIGN DETAILS **EROSION CONTROL**

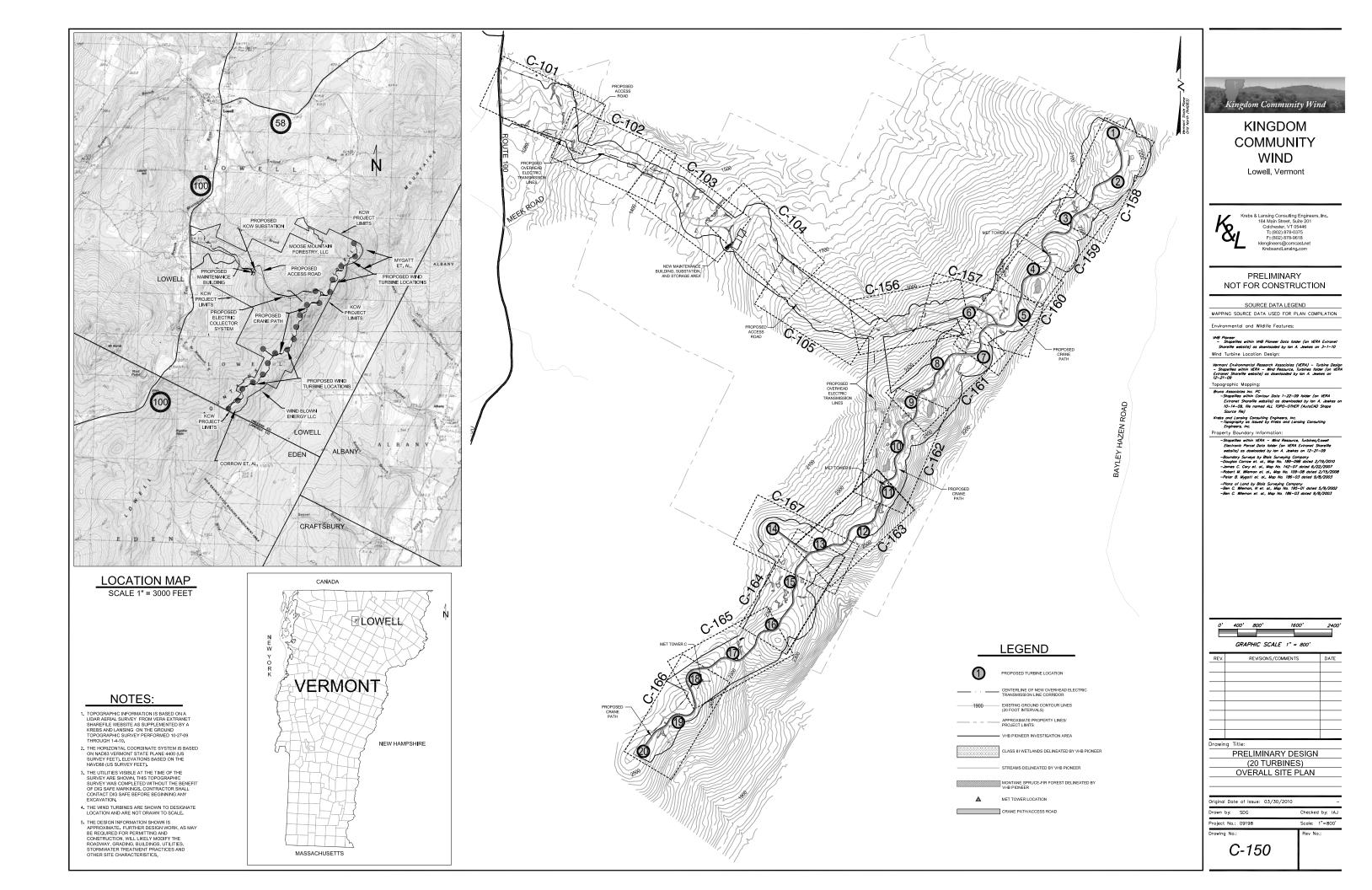
Original Date of Issue: 03/30/10

Drawing Titl

rawing No.:

Checked by: IAJ Drawn by: SDG Scale: N.T.S.

ev No.:





LEGEND

T 1 PROPOSED TURBINE LOCATION

APPROXIMATE CLEARING LIMITS _____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR CLASS III WETLANDS DELINEATED BY VHB PIONEER - ENVIRONMENTAL DESIGN BUFFER - - - 2350- - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) APPROXIMATE PROPERTY LINES/
PROJECT LIMITS

MONTANE SPRUCE-FIR FOREST DELINEATED BY VHR PIONIFFR S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER

PROPOSED CRANE PAD

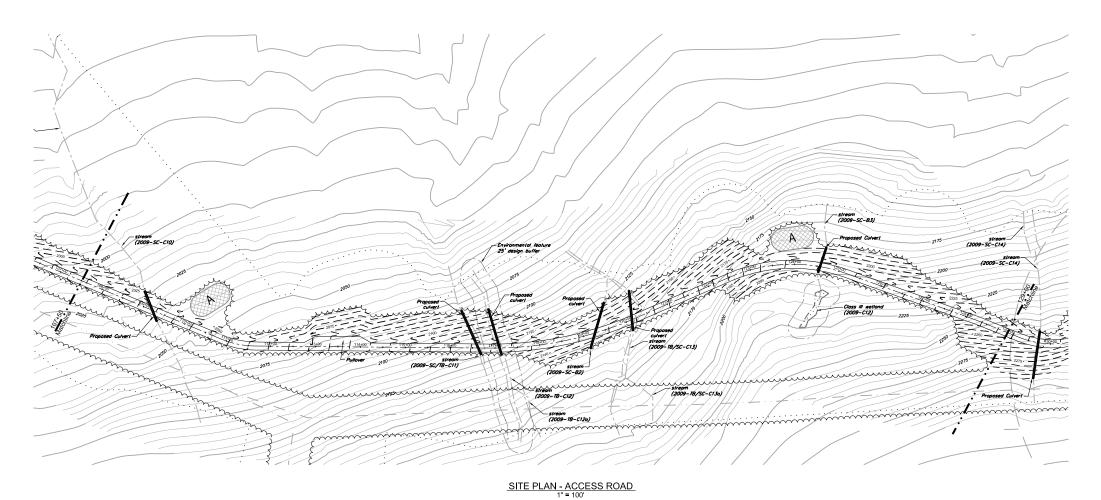
MET TOWER LOCATION

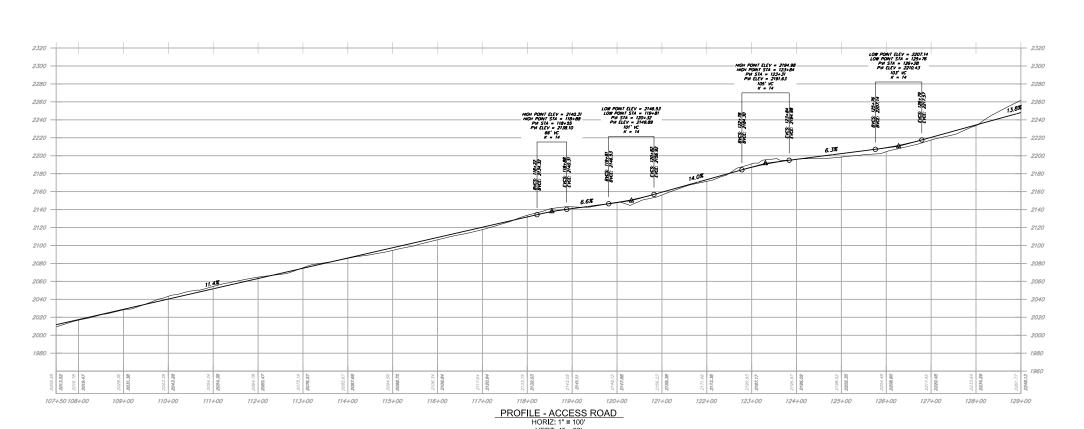
BSB IDENTIFIED BY VHB PIONEER 300 METER OFFSET FROM TURBINE CENTER

STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
- THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.







KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brun Associates Int. PC

- Superflew within Contour Data 1–22–09 falser (on MERA

Extranet Superfle website) as downloaded by fan A. Jewes or

10–14–03, file names ALL TOPO-DITER (AutoCAD Shape

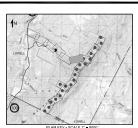
Source Rie)

Property Boundary Information

Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'



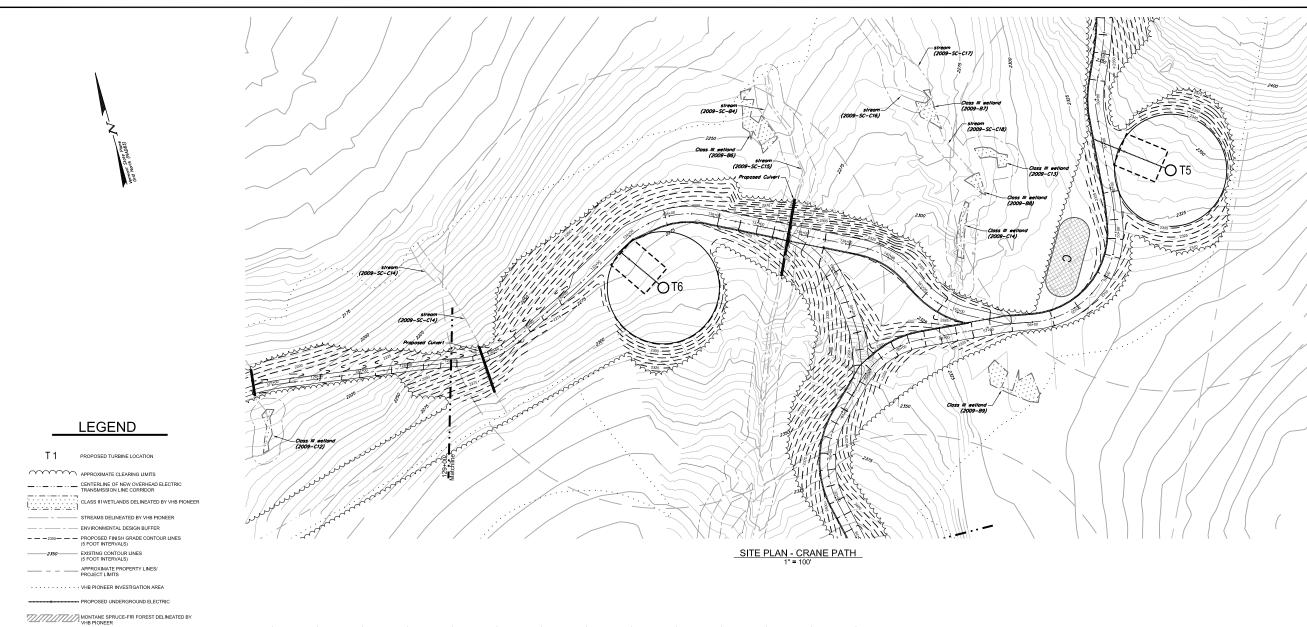
V.	REVISIONS/COMMENTS	DATE
ra	wing Title:	
	PRELIMINARY DESIGN	
	(20 TUDDINEC)	

PLAN AND PROFILE ACCESS ROAD

Station 107+50 to Station 129+00

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



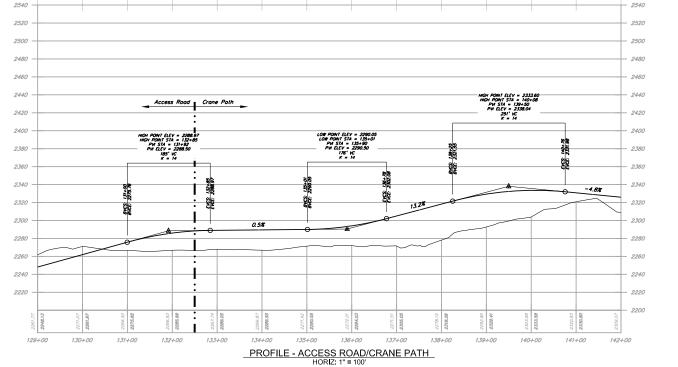
S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER PROPOSED CRANE PAD PROPOSED TURBINE FOUNDATION MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER 300 METER OFFSET FROM TURBINE CENTER

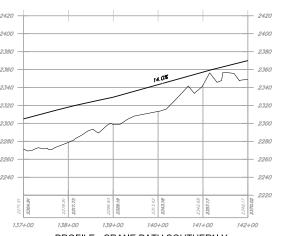
STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

NOTES:

0

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- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
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PROFILE - CRANE PATH SOUTHERN Y
HORIZ: 1" = 100'
VERT: 1" = 50'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brune Associates Inc. PC

- Superfiew With Control Data 1-22-09 forter (on VERA

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Source Rie)

Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

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GRAPHIC SCALE 1" = 100'





(20 TURBINES) PLAN AND PROFILE ACESS ROAD/CRANE PATH

Station 129+00 to Station 142+00

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies



LEGEND

T 1 APPROXIMATE CLEARING LIMITS CLASS III WETLANDS DELINEATED BY VHB PIONEER - STREAMS DELINEATED BY VHB PIONEER --- - ENVIRONMENTAL DESIGN BUFFER - - -2450- - - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) —2475——— EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS) APPROXIMATE PROPERTY LINES/ MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER

* S2 (S-T) PAUTS IDENTIFIED BY VHB PIONEER

PROPOSED CRANE PAD

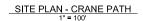
MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER

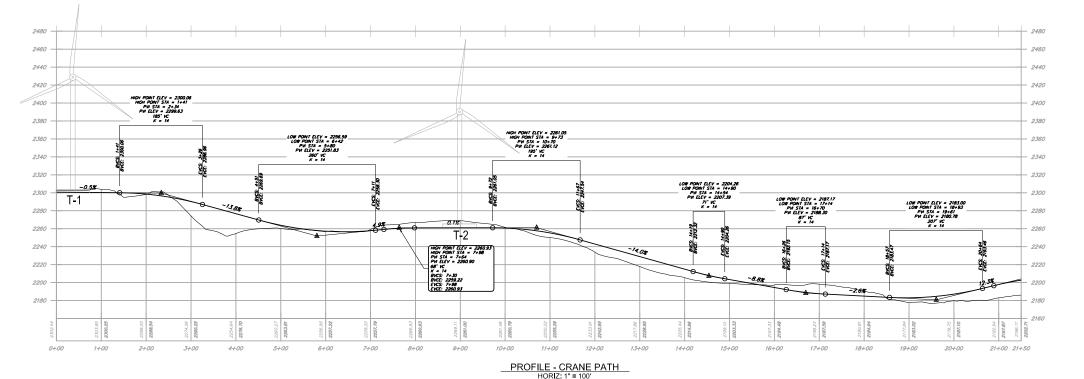
300 METER OFFSET FROM TURBINE CENTER STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.

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- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
- THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.







KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Bruno Associates Inc. RC

- SnapeRes within Contour Data 1-22-09 failer (an WERA

Extranel ShareRe website) as downloaded by fan A. Jewes or
10-14-08, Re named ALL TOPO-DITER (AutoCAD Shape

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- Shapefiles simin IERA – Mind Resource, Turbines/Lowell
Electronic Parcel Data folder (on IERA Extranel Sharefile
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- Boundary Surveys by Black Surveying Company
- Douglas Corne et al. Also No. 180-089 dated 2/19/2010
- Jonnes C. Cary et al. Also No. 142-07 dated 6/22/2007
- Robert M. Misman et al. Also No. 103-08 dated 2/19/2008
- Peter B. Mygolf et al. Also No. 186-03 dated 9/8/2003

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003





V.	REVISIONS/COMMENTS	DATE	
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	PRELIMINARY DESIGN		

(20 TURBINES) PLAN AND PROFILE CRANE PATH

Station 0+00 to Station 21+50

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



APPROXIMATE CLEARING LIMITS

LEGEND

------ STREAMS DELINEATED BY VHB PIONEER ---- - ENVIRONMENTAL DESIGN BUFFER

- - - - - - - - - - - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) —2475 — EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS)

PROPOSED LINDERGROUND ELECTRIC

MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER \$2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER

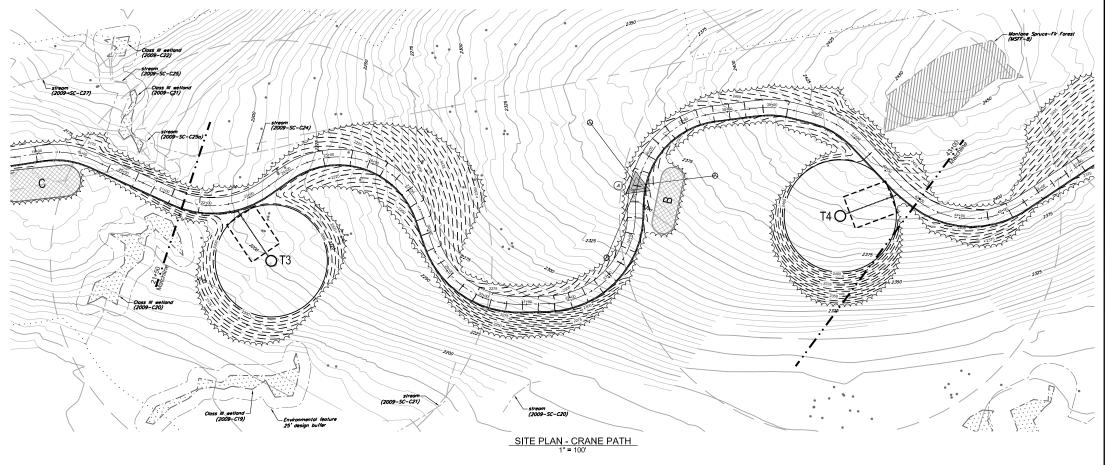
PROPOSED CRANE PAD

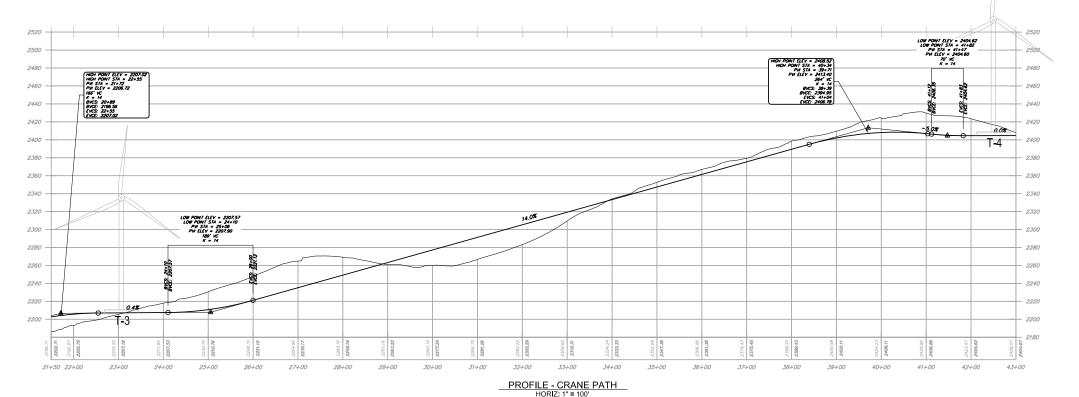
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MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
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VERT: 1" = 50'



KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brune Associates Inc. PC

- Superfiew With Control Data 1-22-09 forter (on VERA

Extranet Strenille website) as diswindanced by fan A. Jewies on

10-14-09. The named ALL TOPO-DINER (AutoCAD Shape

Source Rie)

Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

- Pians of Land by Blais Surveying Company
- Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2002
- Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



GRAPHIC SCALE 1" = 100'



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PLAN AND PROFILE CRANE PATH

Station 21+50 to Station 43+00

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies

QT7 T4 O LEGEND streom-(2009-SC-C17) APPROXIMATE CLEARING LIMITS _____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR CLASS III WETLANDS DELINEATED BY VHB PIONEER ----- STREAMS DELINEATED BY VHB PIONEER ---- - ENVIRONMENTAL DESIGN BUFFER - - - - - - - - - - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) –2475 — EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS) SITE PLAN - CRANE PATH 1" = 100' APPROXIMATE PROPERTY LINES:

MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER PROPOSED CRANE PAD

PROPOSED UNDERGROUND ELECTRIC

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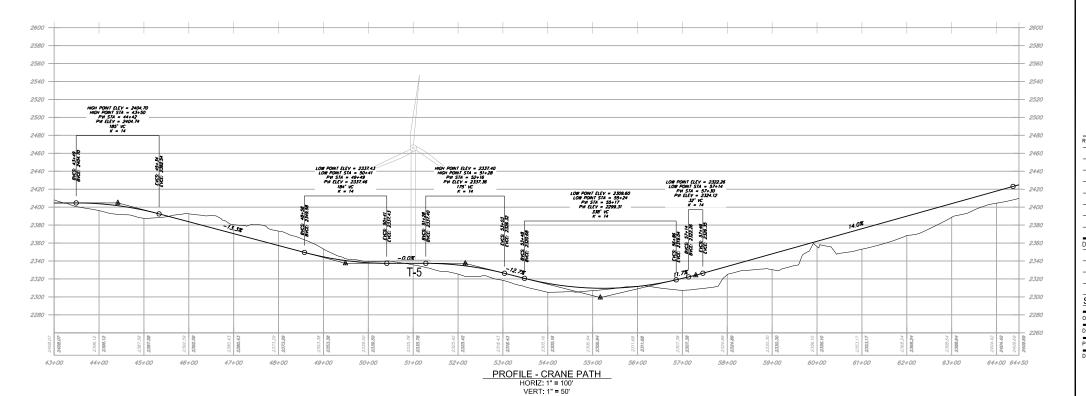
PROPOSED TURBINE FOUNDATION

T 1

MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
- THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.





KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Bruno Associates Inc. RC

- Snapelies within Contour Data 1-22-09 failer (an VERA

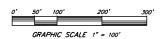
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10-14-08, Re named ALL TOPO-DINER (AutoCA) Shape

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Property Boundary Information

Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003



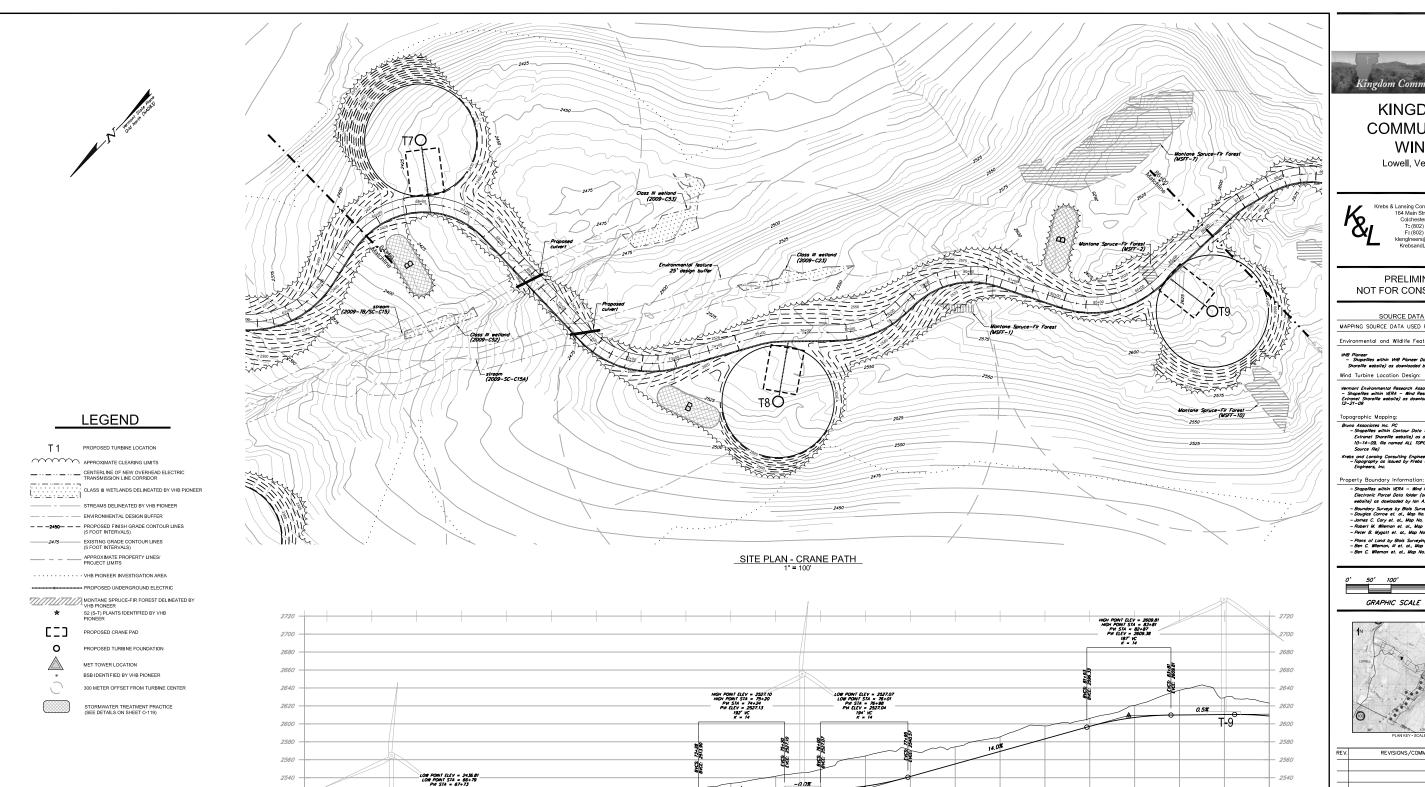


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(20 TURBINES) PLAN AND PROFILE

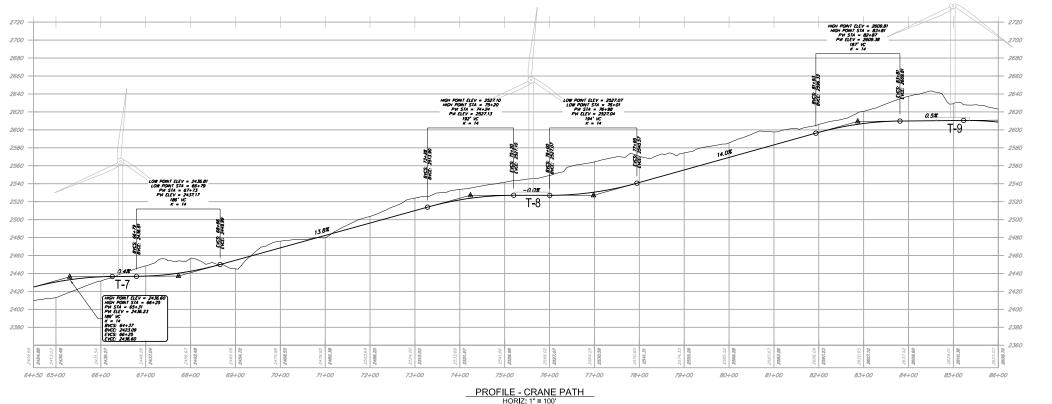
CRANE PATH Station 43+00 to Station 64+50

Original DATE of Issue: 03/30/10
Drawn by: SDG Project No.: 09198 Scale: varies



NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- THE HORIZONTAL COORDINATE SYSTEM IS BASED ON NAD83 VERMONT STATE PLANE 4400 (US SURVEY FEET), ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET).
- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN, THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKNINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
- THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.



Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Topographic Mapping:

Brune Associates Inc. PC

- Superfiew With Control Data 1-22-09 forter (on VERA

Extranet Strenille website) as diswindanced by fan A. Jewies on

10-14-09. The named ALL TOPO-DINER (AutoCAD Shape

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- Shapefiles simin IERA – Mind Resource, Turbines/Lowell
Electronic Parcel Data folder (on IERA Extranel Sharefile
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- Boundary Surveys by Black Surveying Company
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- Peter B. Mygolf et al. Also No. 186-03 dated 9/8/2003

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. ot., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. ot., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'



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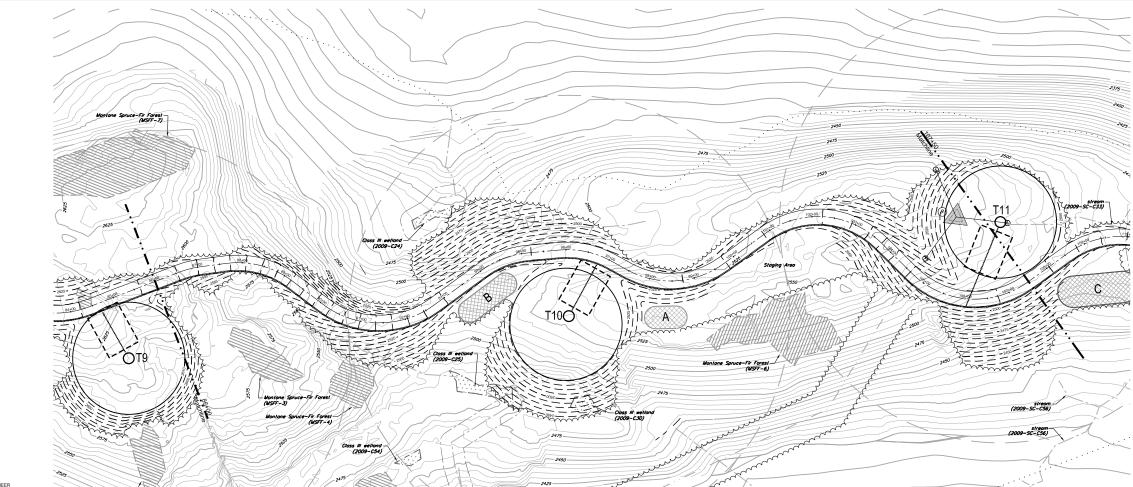
(20 TURBINES) PLAN AND PROFILE CRANE PATH

Station 64+50 to Station 86+00

Original DATE of Issue: 03/30/10

Drawn by: SDG

Project No.: 09198 Scale: varies



CLASS III WETLANDS DELINEATED BY VHB PIONEER — - STREAMS DELINEATED BY VHB PIONEER - - ENVIRONMENTAL DESIGN BUFFER - - -2450- - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) —2475— EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS) APPROXIMATE PROPERTY LINES/ PROJECT LIMITS PROPOSED UNDERGROUND ELECTRIC MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER

LEGEND

PROPOSED TURBINE LOCATION APPROXIMATE CLEARING LIMITS

_____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR

West North (NAOS)

S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER PROPOSED CRANE PAD

0 PROPOSED TURBINE FOUNDATION

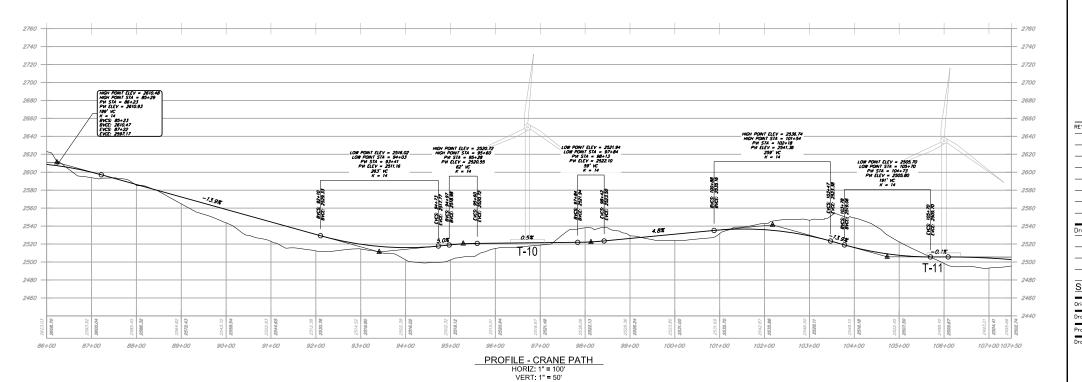
MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER

300 METER OFFSET FROM TURBINE CENTER

STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
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SITE PLAN - CRANE PATH
1" = 100'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brune Associates Inc. PC

- Superfiew With Control Data 1-22-09 forter (on VERA

Extranet Strenille website) as diswindanced by fan A. Jewies on

10-14-09. The named ALL TOPO-DINER (AutoCAD Shape

Source Rie)

Property Boundary Information

Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. ot., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. ot., Map No. 186-03 dated 9/8/2003





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(20 TURBINES) PLAN AND PROFILE CRANE PATH

Station 86+00 to Station 107+50

Original DATE of Issue: 03/30/10
Drawn by: SDG

Project No.: 09198 Scale: varies



LEGEND

T 1 APPROXIMATE CLEARING LIMITS _____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR CLASS III WETLANDS DELINEATED BY VHB PIONEER ------ STREAMS DELINEATED BY VHB PIONEER ---- - ENVIRONMENTAL DESIGN BUFFER - - -2450- - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS) - _ _ APPROXIMATE PROPERTY LINES/ PROJECT LIMITS MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER

* S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER PROPOSED CRANE PAD

PROPOSED TURBINE FOUNDATION

BSB IDENTIFIED BY VHB PIONEER

300 METER OFFSET FROM TURBINE CENTER

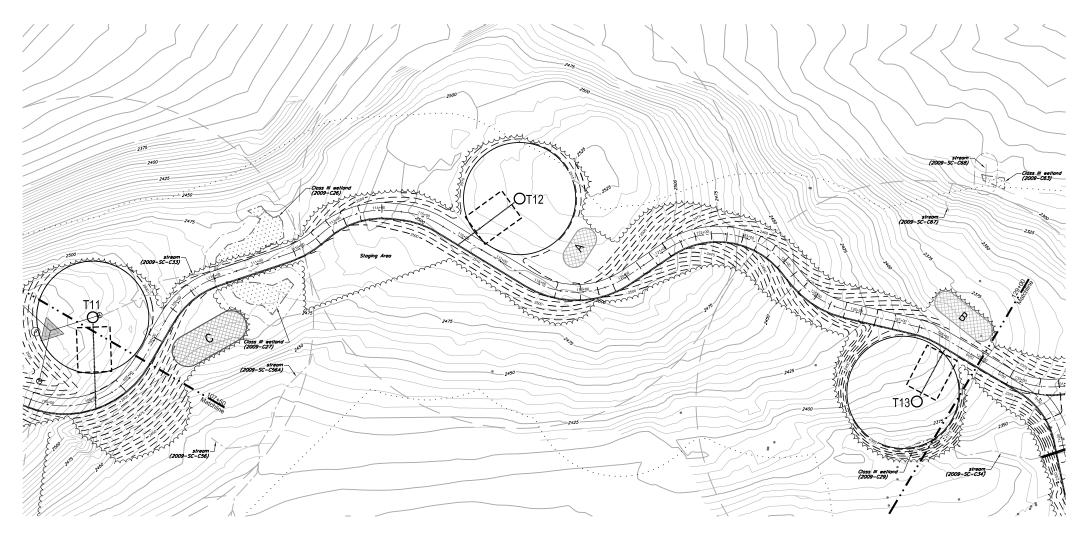
STORMWATER TREATMENT PRACTICE (SEE DETAILS ON SHEET C-119)

MET TOWER LOCATION

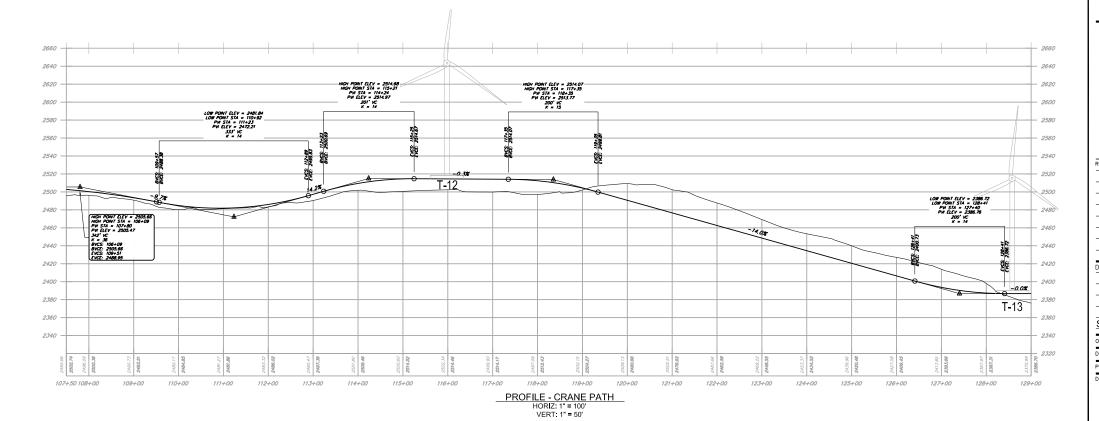
NOTES:

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SITE PLAN - CRANE PATH 1" = 100'





KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brun Associates Int. PC

- Superflew within Contour Data 1–22–09 falser (on MERA

Extranet Superfle website) as downloaded by fan A. Jewes or

10–14–03, file names ALL TOPO-DITER (AutoCAD Shape

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Electronic Parcel Data folder (on IERA Extranel Sharefile
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- Jonnes C. Cary et al. Also No. 142-07 dated 6/22/2007
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- Peter B. Mygolf et al. Also No. 186-03 dated 9/8/2003

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. at., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. at., Map No. 186-03 dated 9/8/2003





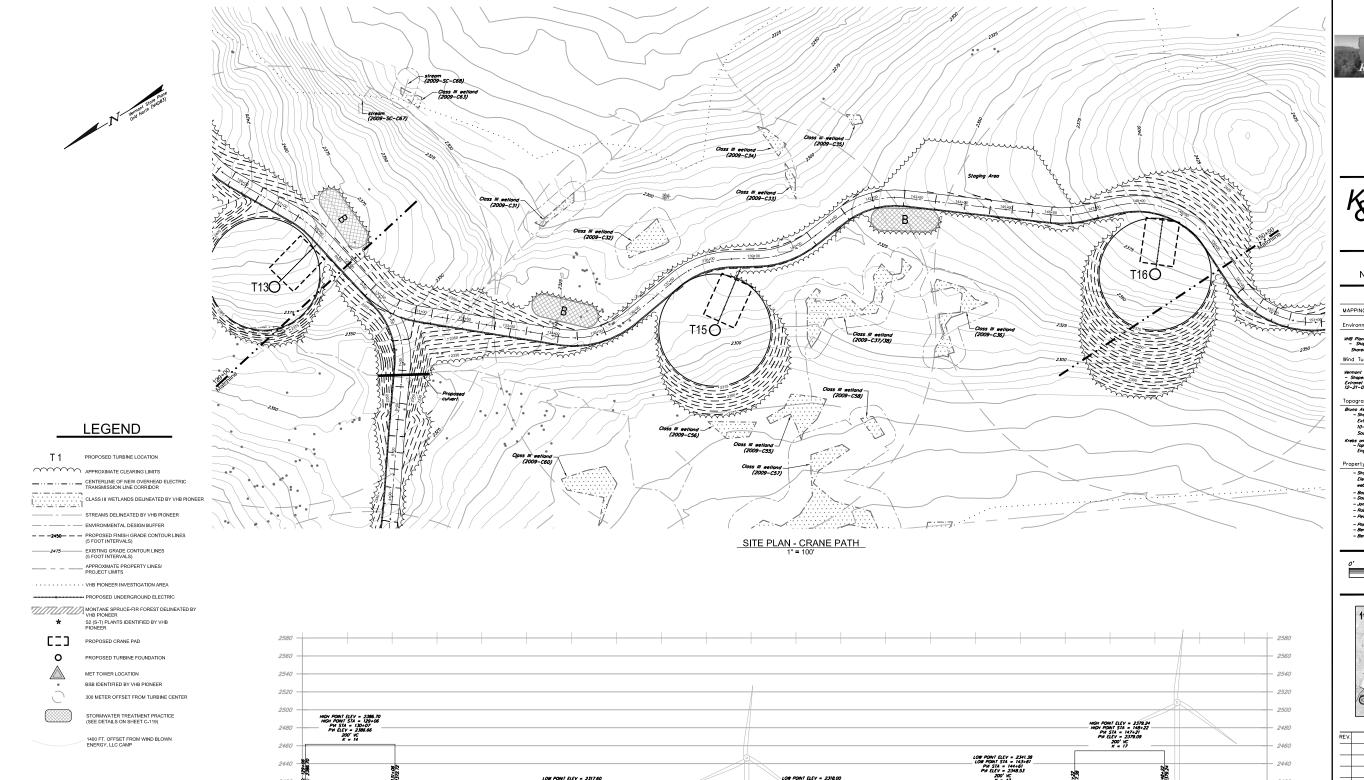
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(20 TURBINES) PLAN AND PROFILE CRANE PATH

Station 107+50 to Station 129+00

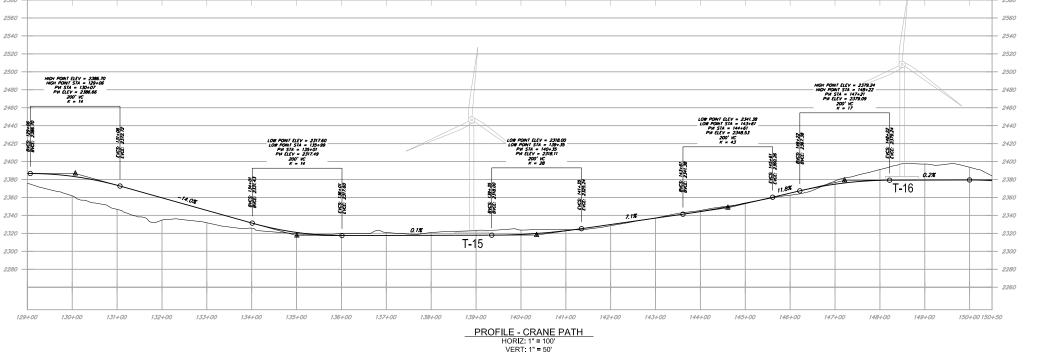
Original DATE of Issue: 03/30/10
Drawn by: SDG

Project No.: 09198 Scale: varies



NOTES:

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- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
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KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brune Associates Inc. PC

- Superfiew With Control Data 1-22-09 forter (on VERA

Extranet Strenille website) as diswindanced by fan A. Jewies on

10-14-09. The named ALL TOPO-DINER (AutoCAD Shape

Source Rie)

Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

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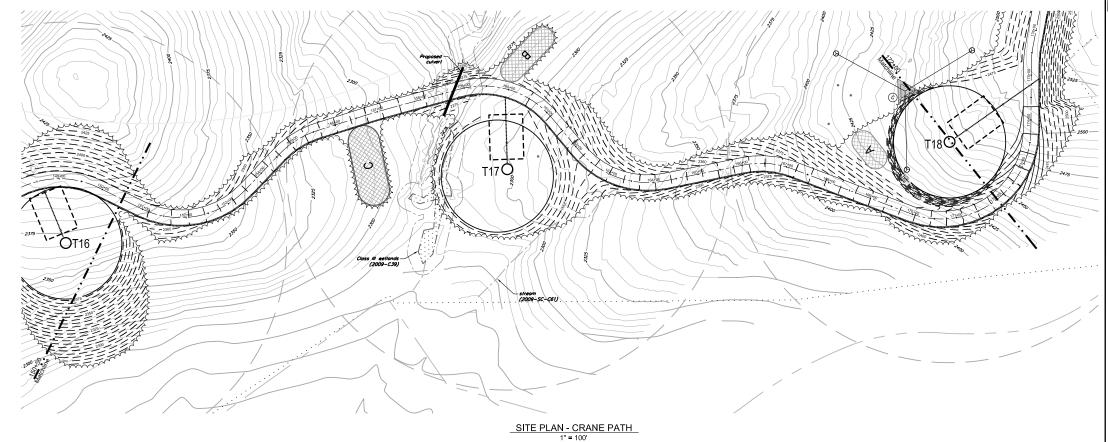
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(20 TURBINES) PLAN AND PROFILE CRANE PATH

Station 129+00 to Station 150+50

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies





LEGEND

T 1 PROPOSED TURBINE LOCATION APPROXIMATE CLEARING LIMITS _____ CENTERLINE OF NEW OVERHEAD ELECTRIC TRANSMISSION LINE CORRIDOR TRANSMISSION LINE CORRIDOR

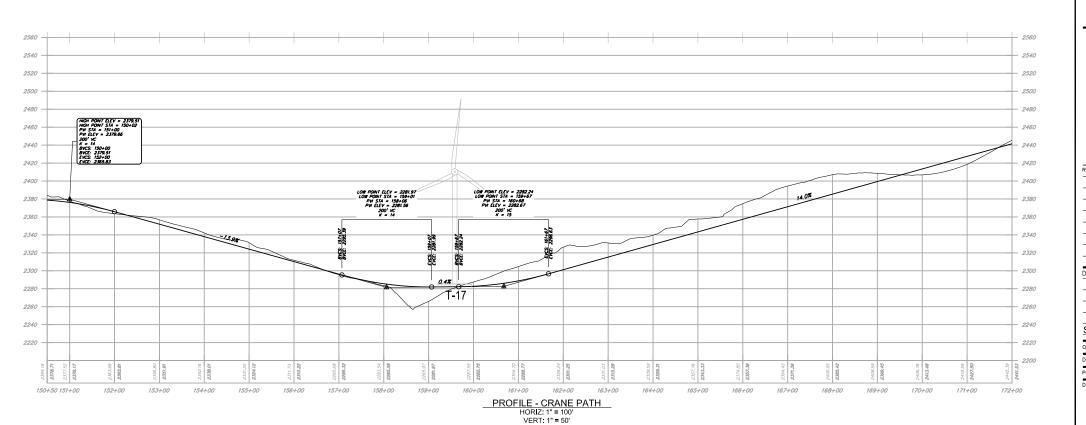
CLASS III WETLANDS DELINEATED BY VHB PIONEER ------ ENVIRONMENTAL DESIGN BUFFER - - -2450- - PROPOSED FINISH GRADE CONTOUR LINES (5 FOOT INTERVALS) ——2475— EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS) ------ PROPOSED UNDERGROUND ELECTRIC MONTANE SPRUCE-FIR FOREST DELINEATED BY VHB PIONEER S2 (S-T) PLANTS IDENTIFIED BY VHB PIONEER PROPOSED CRANE PAD 0 PROPOSED TURRINE FOUNDATION

MET TOWER LOCATION BSB IDENTIFIED BY VHB PIONEER 300 METER OFFSET FROM TURBINE CENTER

. 1400 FT. OFFSET FROM WIND BLOWN ENERGY, LLC CAMP

NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
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KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brune Associates Inc. PC

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Extranet Strenille website) as diswindanced by fan A. Jewies on

10-14-09. The named ALL TOPO-DINER (AutoCAD Shape

Source Rie)

Property Boundary Information

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- Shapefiles sinhin 1874 – Mein Resource, Turbines/Lowell
Electronic Parcel Dala lotter (on VERA Extranet Sharefile
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- Dougles Corne et el. Also his 189-088 dated 2/19/2010
- Jonnes C. Cary et al. Also No. 142-07 alorted 5/22/2007
- Robert M. Rimmen et al. Also No. 109-08 doted 2/15/208
- Peter B. Mygall et. al. Map No. 186-03 dated 9/8/2003

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. ot., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. ot., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'



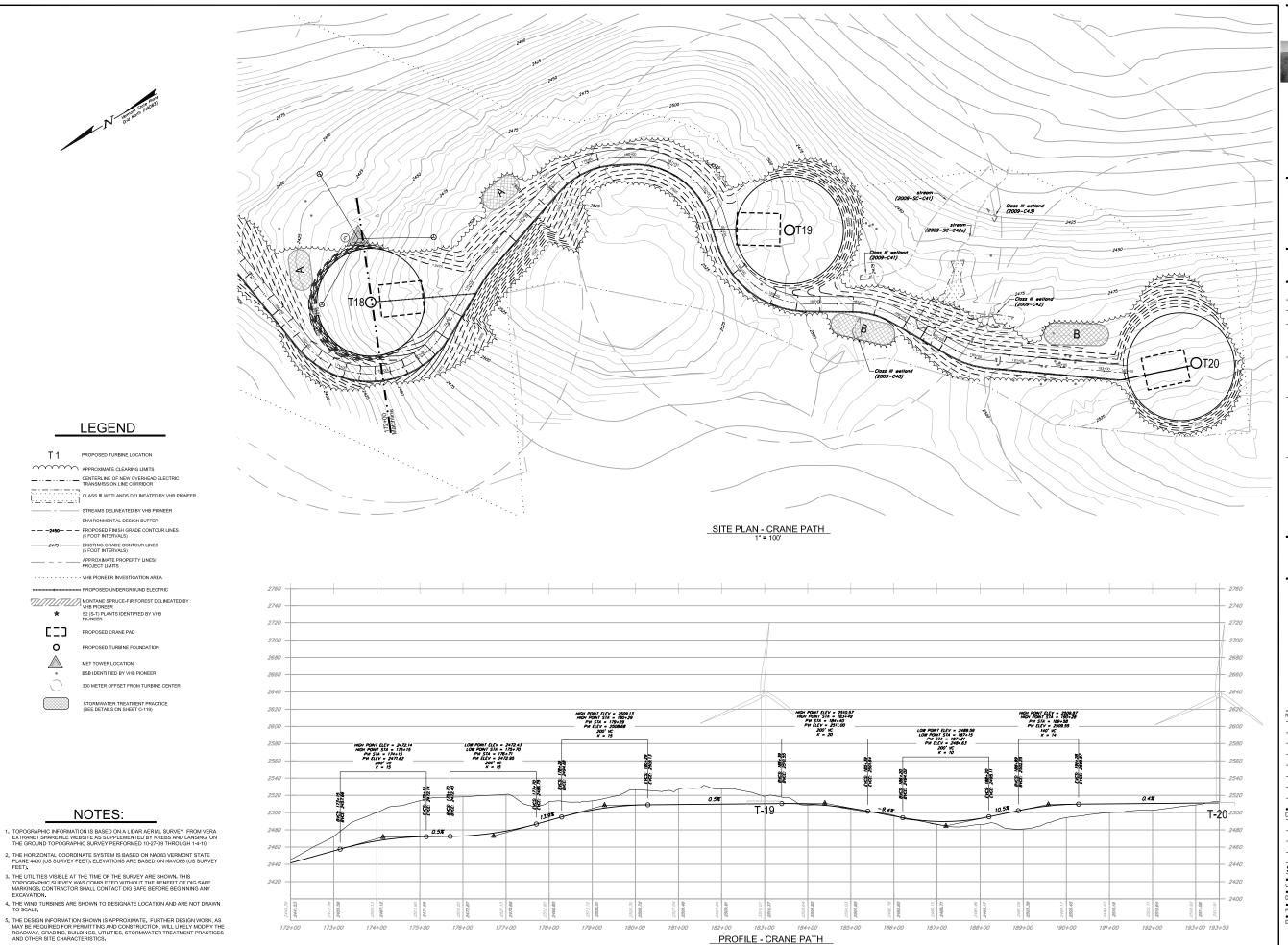
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(20 TURBINES) PLAN AND PROFILE CRANE PATH

Station 150+50 to Station 172+00

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198

Scale: varies



PROFILE - CRANE PATH
HORIZ: 1" = 100'

VERT: 1" = 50'

Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brune Associates Inc. PC

- Superfiew With Control Data 1-22-09 forter (on VERA

Extranet Strenille website) as diswindanced by fan A. Jewies on

10-14-09. The named ALL TOPO-DINER (AutoCAD Shape

Source Rie)

Property Boundary Information

Shapefiles within VERA - Wind Resource, Turbines/Lowell Electronic Parcel Data folder (on VERA Extranet Sharefile website) as dowloaded by Ian A. Jewkes on 12-21-09

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. ot., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. ot., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'

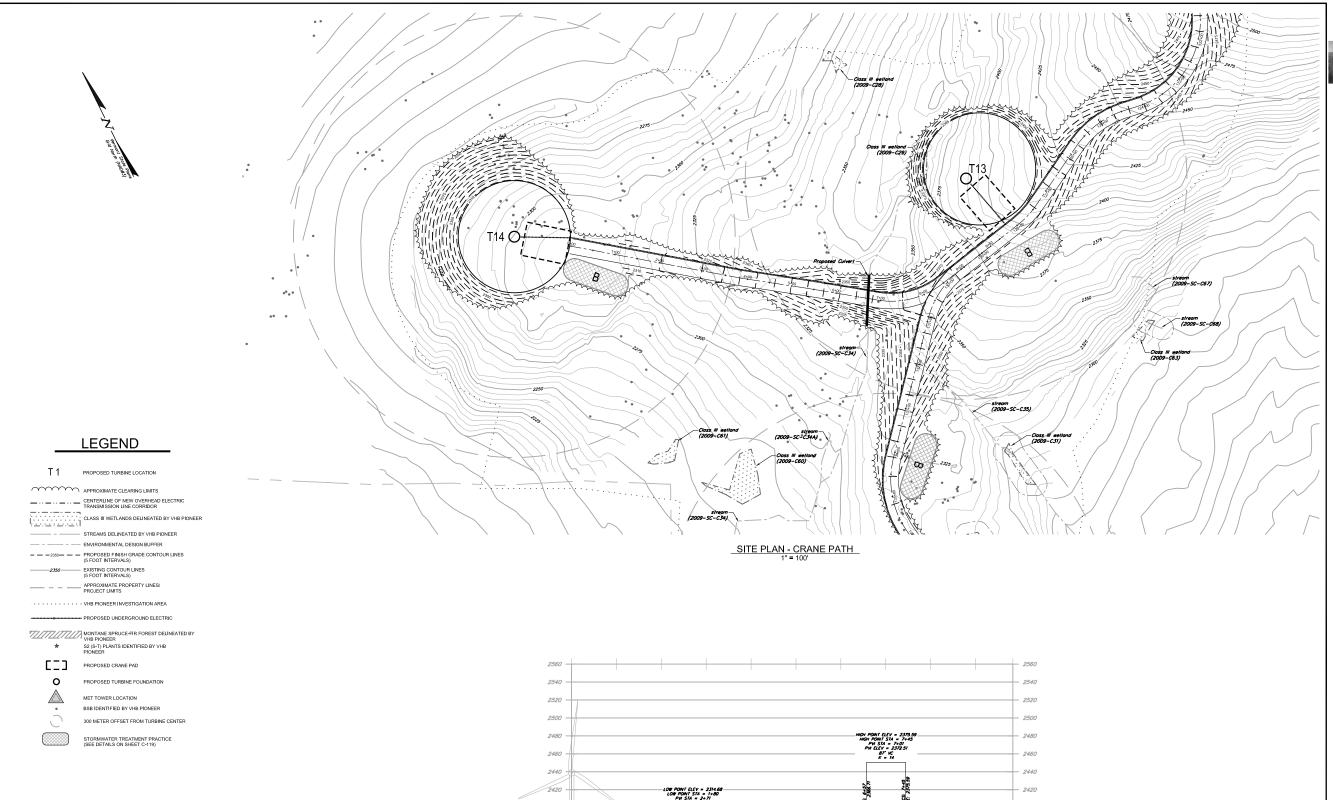


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(20 TURBINES) PLAN AND PROFILE

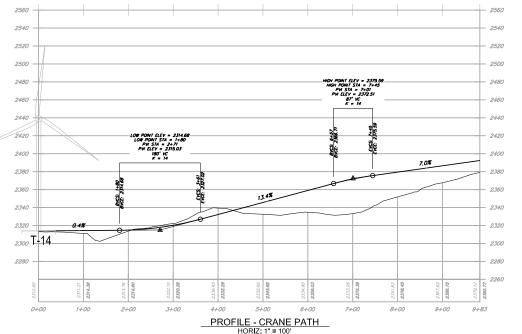
CRANE PATH Station 172+00 to Station 193+55

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies



NOTES:

- TOPOGRAPHIC INFORMATION IS BASED ON A LIDAR AERIAL SURVEY FROM VERA EXTRANET SHAREFILE WEBSITE AS SUPPLEMENTED BY A KREBS AND LANSING ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED 10-27-09 THROUGH 1-4-10.
- 3. THE UTILITIES VISIBLE AT THE TIME OF THE SURVEY ARE SHOWN. THIS TOPOGRAPHIC SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF DIG SAFE MARKINGS, CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- 4. THE WIND TURBINES ARE SHOWN TO DESIGNATE LOCATION AND ARE NOT DRAWN TO SCALE.
- THE DESIGN INFORMATION SHOWN IS APPROXIMATE. FURTHER DESIGN WORK, AS MAY BE REQUIRED FOR PERMITTING AND CONSTRUCTION, WILL LIKELY MODIFY THE ROADWAY, GRADING, BUILDINGS, UTILITIES, STORMWATER TREATMENT PRACTICES AND OTHER SITE CHARACTERISTICS.



Kingdom Community Wind

KINGDOM COMMUNITY WIND

Lowell, Vermont



PRELIMINARY NOT FOR CONSTRUCTION

MAPPING SOURCE DATA USED FOR PLAN COMPILATION

Environmental and Wildlife Features:

Wind Turbine Location Design:

Topographic Mapping:

Brune Associates Inc. PC

- Superfiew With Control Data 1-22-09 forter (on VERA

Extranet Strenille website) as diswindanced by fan A. Jewies on

10-14-09. The named ALL TOPO-DINER (AutoCAD Shape

Source Rie)

operty Goundary Internation:

- Shapefiles simin IERA – Mind Resource, Turbines/Lowell
Electronic Parcel Data folder (on IERA Extranel Sharefile
exebile) as dioactionated by Inn. A. Hyeles on 112-21-09

- Boundary Surveys by Black Surveying Company
- Douglas Corne et al. Also No. 180-089 dated 2/19/2010
- Jonnes C. Cary et al. Also No. 142-07 dated 6/22/2007
- Robert M. Misman et al. Also No. 103-08 dated 2/19/2008
- Peter B. Mygolf et al. Also No. 186-03 dated 9/8/2003

- Plans of Land by Blais Surveying Company - Ben C. Wileman, III et. ot., Map No. 195-01 dated 5/9/2002 - Ben C. Wileman et. ot., Map No. 186-03 dated 9/8/2003

GRAPHIC SCALE 1" = 100'



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(20 TURBINES) PLAN AND PROFILE CRANE PATH SPUR Station 0+00 to Station 9+83

Original DATE of Issue: 03/30/10
Drawn by: SDG
Project No.: 09198 Scale: varies